

FC-8-C3.ST25.txt  
SEQUENCE LISTING

<110> Brandt, Kevin S.  
Gaines, Patrick J.  
Stinchcomb, Dan T.  
Wisnewski, Nancy

<120> FLEA HEAD, NERVE CORD, HINDGUT AND MALPIGHIAN TUBULE NUCLEIC ACID  
MOLECULES, PROTEINS AND USES THEREOF

<130> FC-8-C3

<140> not yet assigned  
<141> 2003-07-17

<150> 60/319,414  
<151> 2002-07-22

<160> 2313

<170> PatentIn version 3.2

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FC-8-C3.ST25.txt

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FC-8-C3.ST25.txt

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tcatgaataa tctgttgtgc ttgtttggag atttagacaa gcacatttgg tctgattctt      240
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gggtatgcat cgcaactccg ttttatcaaa gtgnaagcca tttggacaat cataatgttt 360

tatttgccat ttgttggtta ccaagaaaca ttgntaatat tttttacaat ctcttcgac 420

ggaaaaaacg ttttcaacct ttgcacgcag ttctgccna gaaagatttt ggggtcaaacc 480

attcgttgac gtcgtcctca 500



<210> 25  
 <211> 146  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 25  
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 aggtccagtg gatggccgag gtgcgt 146

<210> 26  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (403)..(403)  
 <223> n = unknown at position 403

<400> 26  
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 gccaccattg aagttcttaa taaacagaag aggaaaactt tgtgccacac tgatggcgaa 120  
 ggagttgaat gcgaaacaga agaagggagc atcgcacctc aaataatact atttgctgcc 180  
 caattaatth ctggagtcgg tggatcttta tactacactt taggtgtatc ctatatggac 240  
 gataacacca aaaaatctaa aacaccagca ctgataagtt tttcttattt tcttcgtatg 300  
 ctcggaacctg caaccgggta tgccttggct agcgtctgtc taaagttcta catttcgcca 360  
 acgttgacgc caacaattga taataatgat cctagatggg tangagcatg gtgggttaagt 420  
 tgggtgatac taggatcaac tttaatatth tttgcaacgt tgattggatt gtttcctaaa 480  
 attctgccaa gagctgca 498

<210> 27  
 <211> 489  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (445)..(445)  
 <223> n = unknown at position 445

<400> 27  
 aacaatatgt aaccgattcc aactatttt taacagaatt caaaattcgt aattgtcaag 60  
 aaattatttc atctctacag aatgttttat gtgatcaaga agtcaagtat attccaaagc 120

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ggaaatttgg gttcaaaaat aaaaagctct tattaatga taaaattatt ggtaaggact 180
tggatacaaaa aagtaaagat acgacagatt tatgtctcaa taagtgtaat gattggaatt 240
tatcagaatg tggatttcat ttaaaggaga atgaaattct atatctttat gctgaacagg 300
ttaataaaaaa ggatattaca ttgagtagca tatataaatg cactgtaata attactggct 360
atcctaatac ttcaaacatt caagacagca ctgtgatttg tggtcctgta actacatcaa 420
tatttgctga taaatgcatt aatangtaag ttagtcattg cttgccagca attgagacta 480
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```

```

<210> 28
<211> 582
<212> DNA
<213> Ctenocephalides felis

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<220>
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<223> n = unknown at position 422

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<220>
<221> misc_feature
<222> (479)..(479)
<223> n = unknown at position 479

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<220>
<221> misc_feature
<222> (520)..(520)
<223> n = unknown at position 520

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<400> 28
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tgattgcaac aatagtttta gaatctttca ttccagctaa gtgttgaatt gctccagata 180
ttccaacagc aatatagagt tcaggtgcaa caatcttccc tgtctgaccg atttgcatat 240
catttgggca aaatccagca tctaccgcgg ctctagaagc gcctactgca gctcctatct 300
tatccgctaa gtcaaataat aatttgaaat taccaccaga ctttaaacca cgtcctcctg 360
atacaatagt cttagcactt gataattcag gcctgtctga tttacttagt tcttgggata 420
tnaatgtggg caaatcgagg ttatagtcac ctctgggaac atctttcact tcagctggng 480
aagaatttaa tgcagctggg ttcaaagctg gtgccacgan tagatatgac tttagtggat 540
ctttcacctt cagtgtctga atacgttacc ggcataaatt gt 582

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<210> 29  
 <211> 314  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (185)..(185)  
 <223> n = unknown at position 185

<220>  
 <221> misc\_feature  
 <222> (258)..(258)  
 <223> n = unknown at position 258

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> n = unknown at position 283

<400> 29  
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 gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga 180  
 tcgangagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttattctaca 240  
 accttggttc gagttcanga taaaataact gctttgtggc canttttggg tatctgtgct 300  
 gaagtaatta cttt 314

<210> 30  
 <211> 133  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 30  
 ccgggcaggt acggcctctt gcaaggcttc gtgggtgcatt tcaacggatt taacttcagt 60  
 ggtcaagttg gctggggcaa atacaacaac agtgcctggt ttcaagactc cagtttcaac 120  
 acggcctact ggt 133

<210> 31  
 <211> 485  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n = unknown at position 2

<220>  
 <221> misc\_feature  
 <222> (216)..(216)  
 <223> n = unknown at position 216

<220>  
 <221> misc\_feature  
 <222> (332)..(332)  
 <223> n = unknown at position 332

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown at position 406

<220>  
 <221> misc\_feature  
 <222> (463)..(463)  
 <223> n = unknown at position 463

<220>  
 <221> misc\_feature  
 <222> (467)..(467)  
 <223> n = unknown at position 467

<400> 31  
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 gaaagtgtat aaagtgggag acatagtaga cataaagggt aatggtgctg tgcagaaagg 120  
 tatgccttat aaagcctacc atggtaaaac tggacgtgtt tataatgtaa cccctcatgc 180  
 gcttggtgta atagtaaaca aacgtgtccg tgggtanaatt attccaaaga gaataaatat 240  
 tcgtattgaa cacgtaaagc attcaaaatg cagagaagat tttttgaaac gtgtgaagga 300  
 aaatgaacgt cttcgacatg aagccaagga anagaaagtt catgttacat tgaagagaca 360  
 acctgctcaa cctcggccag caaatattgt caaaggaact gatganccaa tacgtttggc 420  
 accaattcct tacgaattta ttgcataaat ttgtaaactt tanatanata attaagattt 480  
 gtaaa 485

<210> 32  
 <211> 439  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 32  
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 gaagcccgtg ccaagggtcaa ggcttgcaga gatgacaaac gtgatgaatt caaccaagtt 180  
 cgccaaaatg gcttggccgc ctggagagaa gccagggaga acgccgaagc cctcagagca 240

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caagccaagg agtgcgttgt gaccgcagcc gatgtcgatg aagccagagt ttgcttgaaa	300
ggggttctcc aagctgcca cgaaggagca aaagacttgg ccaaggcact caaagaaacc	360
tggteccaat tgggcaactt agtccgtgaa gtcggaaaat gcgcaagggg agccttgaaa	420
gaattagggg caacttagt	439

<210> 33  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (344)..(344)  
 <223> n = unknown at position 344

<400> 33	
attacacaga attcgtgcaa agaacactgt tttggcgact ggtggttatg gacgagcata	60
tttttcatgc acttcagcac atacctgcac aggtgatggc accggtatgg tagccagagc	120
tggattacca gcacaagatt tagaatttgt gcagttccat cctacaggta tttatggagc	180
tggctgttta attactgaag gatgcagagg tgaaggtgga tttttggtaa attctcaagg	240
agagagattt atggaacgat atgcacctgt tgcaaaagat ttggccagta gagatgtggt	300
ttctagatca atgacaattg aaatcaatga aggtcgcggt gtangacctg agaaagatca	360
cgttttattg caattacatc acttaccagc tgaacaatta gcgagcagac ttcttggtat	420
ttccgagaca gctatgatat tttgtggtgt tgatgttact cgtgagccaa tccccgtttt	480
accaacagtg cattataa	498

<210> 34  
 <211> 427  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (403)..(403)  
 <223> n = unknown at position 403

<400> 34	
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catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt	120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaaa agtgagattg	240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tatttttatgt aangagcaca aacaaaatgt 420  
 cattaac 427

<210> 35  
 <211> 362  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 35  
 cagtgcgggg gcacctttga cactcgattt aataaagaaa cgggtcacat tagttttgca 60  
 actgtatgac aaaattgatc cagcaaagtt gaaattggag tcacacttta tcaacgactt 120  
 aggttttagat tccttagatc atgtagaagt tattatggcc atggaggacg agtttggttt 180  
 tgaaatccca gatggtgatg cagaaaaact gacccgacct gcagatattg ttcgatacgt 240  
 agcagataga gaagatgttt atgaataaac taaataaatg gttgatttgt aaaacatttt 300  
 agaataataa tttcaatatc tgcacaaaaa ttatgtgcag tttgattatg tctgaacctt 360  
 gt 362

<210> 36  
 <211> 462  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (445)..(445)  
 <223> n = unknown at position 445

<220>  
 <221> misc\_feature  
 <222> (451)..(451)  
 <223> n = unknown at position 451

<400> 36  
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 aagcagccaa acagttagaa gatgaaaaat ctgaaatcaa acttgccaaa gttgatgcc 120  
 ctgaagaagg cgatttggtt gagaaatatg gtgttcgagg atatccaact ttaaaattct 180  
 tccgtagcgg aagtgaatt gattatacag gtggacgcca agctgatgac attattactt 240  
 gggtgaaaaa gaagactgga ccaccagcta aagaactgga atctgttgat gacgccaaag 300  
 catttggtga ggaaagccaa gttgtcgta ttggtttctt taaggatcgt gaatcagctg 360

aagctaaggc attcttgtca actgctaact ctgttgatga ttatccattt ggtatcacga 420  
gcaatgaaga agttataaca attangattt naatgtgggt ca 462

<210> 37  
<211> 0  
<212> DNA  
<213> Ctenocephalides felis

<400> 37  
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<210> 38  
<211> 429  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (286)..(286)  
<223> n = unknown at position 286

<400> 38  
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tacacatatt tttaaaatga tcatatacat aagttagggtg ggcattcgaa aacctgacct 180  
ttaacatctt tgcagaataa gtatcttgtg caagtctttc gggatctggc tgatatccct 240  
acaaaccgcg catggtagtt tctggccgctc ttacagtttt cccangttt tgatgagcac 300  
atatcatcta cacaaaatgg agcatcggat ttgagtctct gcaattgatt gttgtattgg 360  
ggtttcttgt ccagcgcaca acttcaaagt agaacaatcg tgacaaaatg ttcccaactg 420  
cttattagt 429

<210> 39  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (426)..(426)  
<223> n = unknown at 426

<400> 39  
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catgtctcgc cattaactgc catggccagc aaggtggcca tgagcaaatt cgacagtgat 120

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tcttatctgc cttatggaaa attatcaaga aaattttaaaa gttgttataaa agcgtttgaa	180
caggccatta actctttccg aaaaagtatt atattctcat ttagatgaac ctgaaaaaca	240
agaaattgaa agaggaacta gctacttacg ttttaagacc gatagagttg ctatgcaaga	300
tgctactgct caaatggcca tgttgcaatt tatttcatca gggctgccta aagttgccgt	360
tcctagcacg attcattgtg atcatttaat cgaagcacia atcggaggag atcaagatct	420
tgctanagcc aagacattaa taaagaagta tacagtttct tatccagtgc tagtgctaaa	480
tatggggtgg gcttttgg	498

<210> 40  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 40	
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gtaggatttc tgaaaagatt tgtcgaatac atcaaaacca ggcttcgggt acagcatgtc	120
gtgcaggaat caccagcagg ttttctcaaa gacatccagt caaaagtatg catcgaaaga	180
aagcctctga gattttgtgc agaaagactc gcttctctgc ttcggactct ggaagtgcg	240
gatatgactg attttggagc cctgggtttg atcacacatt tagctacatt ggtttccacg	300
tatacacatg gatttactat tattgttgaa ccattcgatg ataagactcc gaatgtttcg	360
aacccgattt tgtatttcag ttgttttagat tcatcattag ccatgaggcc agttttctca	420
agatttcaat cagttgtcat cacatcagga actttgtcac ctttggatat gtatccaaag	480
attttggatt ttcaacct	498

<210> 41  
 <211> 177  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 41	
aagggaatt ttcggtttta ggcattattgg aatgaggcat tagcgaaatc tacaattgaa	60
ctatcgggtg tgaacattcc catggcgact ccaggctcct ggtaagtgtg gacgggtgaag	120
ctcattggac ttcccgatc gggggtaaat gtcaattcta atttaccctt tcctgggt	177

<210> 42  
 <211> 211  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 42



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gggacgagct ggaggtaaga tggcatccaa agcttcaatc aagcatttgc cgtcagcctt	120
gccttcttta cgttcaatgt tccatccctt gaaccagttc atcttggtgg aaacttccaa	180
catgttgtct ccgtgccatc cagagatggg t	211

<210> 43  
 <211> 452  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 43	
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taatcgtagg taaaggatcg ccatcaaatt ccacttcaaa acgagcttgt tcttggtcaa	120
aagctctgca aggttgaatt ttctttgtga aaaatggagc tttagatggg tttacaggac	180
cttgaacaac tctttcaaat gttttgccct tgtgttcaac ttctgtcgtt tcggtcgcag	240
taatcttgcg gggtatttct aaatctccca ctgtttcctt ttgtgtttgc ttttgtttgg	300
caacatgaac ttcttttcca tgcactgttg attctgaagg ttcaggtggg tgacctggga	360
catgttgaga atctattata tattctgttg tatgtggcct ttggatatat tttgctttag	420
gaggagcatc aacagctgtc tcagtagttt gt	452

<210> 44  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 44	
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gtcccatttc atgaaaaaga ttatctacca tagctgggct taaaagcgtg gggcttgacc	120
atcgcggtgg tgccaaattt aatacaacta ctactatagg attctgatat gaaccatcgg	180
atctctgttt accaccttgt atggtaaaat ggcaatcttg atttggcttt cctggctctt	240
cataaaaatc acaatatata tgacctagag ttccttcagt ctcatgaaca atttttaatt	300
tatatatata attagcccaa gcttcaccag gtgccatttc ttcaattaca aatttaatac	360
caaataaaga ttgcattaat atgtccaatc cttccataca accaccaagg ctaaaataag	420
gagcaaaactc agatgctcca acttgtaacc attgcttctt gattttttgt gtaagtaagg	480
tgtatcccaa gcagctaa	498

<210> 45  
 <211> 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (488)..(488)

&lt;223&gt; n = unknown at position 488

&lt;400&gt; 45

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caaccgagggc tcaagttaaa gcactgtcaa aggaatgggc taaccgtgcc acattaccag      60
ctcatgtagt cagtttatta aataatatgc ctagcaacct tcaccctatg tcacagttat      120
catgtgccgt cacagcatta aacagtgaga gcaaatttgc aaaagcctac agtgaaggag      180
tcaacaaagc taaatactgg gagtatgtat ttgaagacag tatgaactta attgctaaac      240
tgctgtagt agcagcaaca atataccgca acacatacag ggatagtaaa ggaattagt      300
ccattgatac aaacaaagat tgggtctgcta atttcacaaa aatggtgggt tatgaggatg      360
aaaaattcac tgaattaatg cgtctatacc tcaccattca cagtgatcac gaagggtggca      420
atgtatcagc gcatacagtt catttagtag gatcagccct cagcgatcct acctctcatt      480
tgctgcangt atgaacgg                                     498

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&lt;210&gt; 46

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 46

```

tttttttttt tttttttttt ttttttttta ttattgaaat tcattttattg aatataatta      60
aaatttcaca tattttatatt cataatttta ctacatttct aagccttcat tataataccc      120
gttgctgca gctccactag ttttacttgc attagaatta atattgtttg gataatcgtc      180
atttttaata cttgtatttg tattagttaa atttttggcc catggctgca cttcgccgga      240
tgcaaaaaac caatatatca cagctcctaa caaatatatt ccacttgaaa tgtaaaatac      300
aatttgccac gatgtgagta aatcatctcc aacctttcca ttaacaatga aaccagtcaa      360
ttgagggctg attattcctg gcaatgttgc aaaagtattt gacaatccca tcagaacgct      420
agcatattgt ggtgcgatgt ccaaagtatt tacactgaat ccagaccaag caaaagcgcc      480
caaaccaca gcgactgcag                                     500

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&lt;210&gt; 47

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

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<400> 47  
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cgaagttcat ggtgtctatg gctcgctcgg catcggcagg ctgctggaaa ttaacgtagg 180  
cgtagcccaa ggagcgcctc gtgatcatgt ctcggcatac ccttatcgac aatacgggcc 240  
ccgcagtcga aaactttctca aacaacatcg cctcggtgat gtcggaatgc agatctccaa 300  
cataaaggga cgccatcggg tagttaggag cccctggatt catatcttac ggcctttata 360  
tacttaaacc acgaacaaat taattattaa taagaattga ttaaaaatat ctatatctcc 420  
aacgtggcgt atatctcctc aaaatggctc gtctgtcagt caaaccacgt tgaatgcgcg 480  
cactagtttc aacatttg 498

<210> 48  
<211> 375  
<212> DNA  
<213> Ctenocephalides felis

<400> 48  
tttcagaaga gaacttgctg ggtgtagat tcaacattta tgatgtcaca cttcatgctg 60  
atgctatcca cagaggaggt ggccaaatca ttcccacaac acgtcgttgc ttgtatgctt 120  
gcttaataac agctgcacca agattgatgg aacctgtata tcaatgtgaa attcagtgtc 180  
ctgaagttgc tgttggtggt atctatggtg tgtggaactg gtatagttat ttgacgctcc 240  
ttctcgaaaa catacaaaac agccatggga aaggaaaagg ttcatattaa catcgtcgtc 300  
attggacacg tagattcagg taaatccacc acaactggac acttgatcta caaatgcggc 360  
ggtatcgaca agcgt 375

<210> 49  
<211> 168  
<212> DNA  
<213> Ctenocephalides felis

<400> 49  
caaacggtgt gaactccttg cgcagccttt catcatcgat tgtgtcatca aggttcttga 60  
catacaggtt aacaccttgg tagcgattca gacgttctat tttcagctgc tcaaacttac 120  
gcttgagttc ttgttggcgt tcagctttct tttgagcacg gccaacgt 168

<210> 50  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

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<400> 50  
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 caaatgggttc caacaattgc aatcgggtctg atttaggatc aacattaact ttcacacttg 120  
 agccatctgc aggaggttgt tcatatgtat cttgacctgc atcgaaacct ttgcttgga 180  
 gttcatcgcc aaaggggtgaa tcaagtttga attctttgcc atcgcttctt ttcagagtat 240  
 ctgttactgg attaaaatct aagcggccag caattgatag agctgtgact aattcaggac 300  
 ttgtgacaaa acagtgagtg gcaggattag catcattacg gcctgtgaaa tttctattat 360  
 atgaagtaac aatttgtgtt tttctctctt tcttcacatc cttacgatcc cactgaccga 420  
 tgcaagggtcc acaggcattg ctaaaacagt gcccccaaaa ttcacgggag aagtttgggc 480  
 aattccatct cgttcgat 498

<210> 51  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 51  
 aatcaataag aatattgggg ccagttccat caggacaaa gcaccagatt ttacgagctt 60  
 cagttacatc ataatcatatc tgttcaccaa gataacgagc acgagctttg aattcatcac 120  
 ggggggttgac ttttccactg tcgatgtctt ctgcgaggcc atcaggcata ggttgtgcct 180  
 tcatgaataa tctgttgtgc ttgtttggag atttagacaa gcacatttgg tctgattctt 240  
 cagatacagt ttccctgtaa gatacaacag ggtcagattt ctttaatgga atgcaagcat 300  
 ggtcttcttc caaatctttc aagcaaattt ccaagtgcaa ttcaccggca ccagcaataa 360  
 tgtgttcacc agattcttca atgatacatt ggaccatagg atctgatttg gccaggcggt 420  
 tcaaaccctt taccaatttt ggcaagatca gcagggttct taggttcaac agcaacacgc 480  
 acaacaggag aaactgag 498

<210> 52  
 <211> 310  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 52  
 cggcgcgacg atacgcgtgg agtcttcgcg ggggccggag tttatgatga cggttaccaa 60  
 gatctgtaat ggattttctc cagtaagcaa atgaatgatt tcaaaagcgt gcttgacaat 120  
 acggatggcc atcagttttt tgccattgtt acgtccgtgc atcatcaggg agttggtcag 180  
 acgttctacg atggggcact gggcttttgcg gaaacgcttg gcagcgtatc taccagcaga 240

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gtggggtaga tatttggcgt tcttttcttt gacggcgatg taatcctgta gtgacatata 300  
agagacttgt 310

<210> 53  
<211> 325  
<212> DNA  
<213> Ctenocephalides felis

<400> 53  
aatcacagca ggaagcaaat gacgacaggg agtgccataa agatggatgg aactttcttca 60  
acacagatat tgttttcgac agaaatggag cagttgtggc cagatatcga aaattcaacc 120  
tttttagtga aaaacaattc aataccacta aatttcccga acattcgaca tttgtcacag 180  
atttcaatgt aacgttcggg ctgttcacct gtttcgacat aatgttcaac gaaccagcct 240  
tgccatggt gagagaaggc gttagagact ttgcattccc aactatgtgg tttagcgaat 300  
tgccattctt aacagctcgt caagt 325

<210> 54  
<211> 623  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (581)..(581)  
<223> n = unknown at position 581

<400> 54  
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ttgatctcaa atctgtgccg gcacctctcg atggaaatga ttgttcagtg tataaatttt 120  
ccgatcctat tttattgaac aagtctttga gtgataccaa tgcctctgca tcagcaagac 180  
caccagcgcgac tgcagcaatc tggcatggct ccacaccttg caaggcttta catacagcaa 240  
taagtgtgta ttcccaatca acaacttcta attgtgatcc tgatttctt aacatgggtg 300  
tgactaatct ttgtcgttta agaccatcaa tagcaaactc agatttatcg gataaccatt 360  
cttcattaat ttctcatta gttcttggtt aaactcgtaa aacttcccca gatcttgagc 420  
taacaacaat attgctccct atagcatcta aaatatcaat agaatcgatc cggcgagttt 480  
ccaagagtg aaaagtaaac gctgtagggt tcgacgttaa agcaccaaca ggacacaagt 540  
caataacatt accagataat tcaagtcata aaaagggttt ncacatatgt gccaaacttgc 600  
atgtcgtttc cagcacctgt agt 623

<210> 55  
<211> 527  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (528)..(528)  
<223> n = unknown at position 528

<220>  
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<222> (540)..(540)  
<223> n = unknown at position 540

<220>  
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<222> (556)..(556)  
<223> n = unknown at position 556

<220>  
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<222> (595)..(595)  
<223> n = unknown at position 595

<220>  
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<222> (615)..(615)  
<223> n = unknown at position 615

<220>  
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<222> (631)..(631)  
<223> n = unknown at position 631

<220>  
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<222> (658)..(658)  
<223> n = unknown at position 658

<220>  
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<222> (672)..(672)  
<223> n = unknown at position 672

<220>  
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<223> n = unknown at position 688

<220>  
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<222> (698)..(698)  
<223> n = unknown at position 698

<220>  
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<222> (702)..(702)

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<223>  n = unknown at position 702

<220>
<221>  misc_feature
<222>  (705)..(705)
<223>  n = unknown at position 705

<220>
<221>  misc_feature
<222>  (707)..(707)
<223>  n = unknown at position 707

<220>
<221>  misc_feature
<222>  (711)..(711)
<223>  n = unknown at position 711

<220>
<221>  misc_feature
<222>  (744)..(744)
<223>  n = unknown at position 744

<400>  55
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catcgcggaac cattccgcga aaagttttac gacttgcgac agatctcgta gaggcaaata      120
attcaaaggt tctgaaagca gccttaagta ctaaagcctc acacaaacaa tgcgttctaa      180
gactagccaa accagaggta tataacatac ctagaacaaa ggtgttaatg aagtggcctc      240
aacataatcg attagtgcac tcttctgcag ctttttatgc atcaaaagta gttaatgtac      300
ctccatttgc agattctgta tcagaaggcg atgtcaagtt ggacaaaaag gtaggtgact      360
atgtgtctgt cgatgaagtg gttatggaaa ttgagactga caaaacatcc atgcctgttc      420
cggcaccaga aggtggtggt attgaagaaa tcttagttaa agatggtgac actgtcaaag      480
ctggacaggc tttgttcaaa ctgaacactt cagctgcacc accagca                      527

<210>  56
<211>  478
<212>  DNA
<213>  Ctenocephalides felis

<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (37)..(37)
<223>  n = unknown

<220>

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<221> misc\_feature  
<222> (41)..(41)  
<223> n = unknown

<220>  
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<222> (206)..(206)  
<223> n = unknown

<220>  
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<222> (248)..(248)  
<223> n = unknown

<220>  
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<222> (279)..(279)  
<223> n = unknown

<220>  
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<222> (298)..(298)  
<223> n = unknown

<220>  
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<222> (306)..(306)  
<223> n = unknown

<220>  
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<222> (346)..(346)  
<223> n = unknown

<220>  
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<222> (352)..(352)  
<223> n = unknown

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<222> (356)..(356)  
<223> n = unknown

<220>  
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<222> (364)..(364)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (371)..(371)  
<223> n = unknown

<220>  
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<222> (386)..(386)  
<223> n = unknown



<220>  
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 <222> (401)..(401)  
 <223> n = unknown

<220>  
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 <222> (409)..(409)  
 <223> n = unknown

<220>  
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 <222> (431)..(431)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (448)..(448)  
 <223> n = unknown

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 gcaagaatta tcagtgtaat ccaaaaacaa tcctgtccgc acgcaagcaa agggttgcga 120  
 tggtcctggt cctgggtggcg gtggtggagg tgcagctgtc gccaagcact cggataaagg 180  
 cgcttgacag cattgatggt aaagcncgct gaagtatgtc tgtccggcgc atgtaaagcg 240  
 acccacgntg aaatttctct cagagagtct cacacattna aaatatactt tgcattgtnt 300  
 gtctgntgga tctgcaaagt agccgctctg cacgcagttg tatatnggcg gnggcntatg 360  
 tggntgccaa ngcgctggag gatttnttag gcaactccgaa ngggaaacna ccacacattg 420  
 ctgataccgt nctgcttaag taagtagnac caggacaatt gtgcgcgcta cactgaat 478

<210> 57  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (496)..(496)  
 <223> n = unknown at 496

<400> 57  
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 tcttgacgca ataagaccaa tcttacgacc agcagatggt cctctcttaa cagtagatgc 120  
 tttaccaata tgttgatggt taccacctcc gtgaggatgc tcaacagggg tcatagcaac 180  
 accacgaacc ttaggccagc agttctcttt aaccttgtat ttgtggtatg ctctaccagc 240  
 tttcaaaata ggtttgtaa tacgtccacc accagacaca ataccaacca tagcacgatt 300

gtagaaggc ataacctttt tagctccaga tggaagcttg acacgagtct ttttagtgtc 360  
 cgggttggtga gcaataacag tagcgtagtt tccagaagca cgggctagcc gacctcggtc 420  
 accagttttc tcttctaagt tgcatacaat ggttccttct ggcatagcac caactggcat 480  
 tacatttcct atttgnag 498

<210> 58  
 <211> 190  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 58  
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 acaattagca gctttcactt cttccacttt gattacttga atagagttag cacgagccct 120  
 gtggcgtgca cccatgtcac gatagcactg agtgacggca cctccgacag ttaagtctct 180  
 gtattccctg 190

<210> 59  
 <211> 393  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (61)..(61)  
 <223> n = unknown at 61

<220>  
 <221> misc\_feature  
 <222> (69)..(69)  
 <223> n = unknown at 69

<400> 59  
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 nggatcaana tacgcaataa ctcataattc ttctcattga gacgtggggc attctctctc 120  
 cagaacttag cagattttgtg aacaggtgac cattccaatc tgccggactt gatttctgta 180  
 gcatattcat caaatgagct aaggtcttga atggaagctt gtaatttttc ggtcaaatat 240  
 tcaacatcag caacgatatc ctcatcatct gaacgtcttt gttccaggat ggataattgt 300  
 ttcaatacct tgctttgcac cattgcaatg caatgctcct tggccacctg ttgatcttcc 360  
 actttctcaa ttaaattcct ataaacagcc agt 393

<210> 60  
 <211> 307

<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (62)..(62)  
 <223> n = unknown at 62

<400> 60  
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 anactctaga gttatatgcc aatggtgttc atgttaaaag tttgccagga gttcgctcta 120  
 ggcataagaa tattgactgt gtaatcattc gtgaacaaac tgagggagag tatagtgctt 180  
 tggagcacga aagcggttaca ggagttgtag aatgttttaa aattataaca gctaagaaat 240  
 ctgaaaggat tgccaaattc gcttttgact atgcaacaaa gcacaatcga aagaagggtga 300  
 ctgctgt 307

<210> 61  
 <211> 229  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 61  
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 cagagttggg ctgtttggct tctacgccaa ctttctccaa aacgattccc ttagcgtgag 120  
 aagcacctcc gaaaggattg gccttccacc tggttcctaa atgagccttt ttgtagtctt 180  
 tgtcggccca cctttggtca cgacgatggt taacatgttt tctagcagt 229

<210> 62  
 <211> 326  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (194)..(194)  
 <223> n = unknown at 194

<220>  
 <221> misc\_feature  
 <222> (248)..(248)  
 <223> n = unknown at 248

<220>  
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 <222> (279)..(279)  
 <223> n = unknown at 279

<220>  
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 <222> (327)..(327)  
 <223> n = unknown at 327

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 <222> (347)..(347)  
 <223> n = unknown at 347

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 <222> (362)..(362)  
 <223> n = unknown at 362

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 <222> (369)..(369)  
 <223> n = unknown at 369

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 <222> (374)..(374)  
 <223> n = unknown at 374

<220>  
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 <222> (381)..(381)  
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<220>  
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 <222> (397)..(397)  
 <223> n = unknown at 397

<220>  
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 <222> (400)..(400)  
 <223> n = unknown at 400

<220>  
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 <222> (426)..(426)  
 <223> n = unknown at 426

<220>  
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 <222> (432)..(432)  
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<400> 62  
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 agtaaacaaa atatattaat caattcatga cgtatagggc ctaaaatcaa attgcattgc 180  
 accatttgag gaangaagga tattaattaa accagaggtt acaactttga atgaagaatc 240

atcttacnga aaaagaaagt ctaggttaac agaaccagnt aggtatttgg aggttttcat 300

aagaaaaatg ggtgaaatgg taaatg 326

<210> 63  
 <211> 525  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (5)..(5)  
 <223> n = unknown at position 5

<220>  
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 <222> (15)..(16)  
 <223> n = unknown at positions 15 and 16

<220>  
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 <222> (20)..(20)  
 <223> n = unknown at position 20

<220>  
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 <222> (24)..(24)  
 <223> n = unknown at position 24

<220>  
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 <222> (29)..(29)  
 <223> n = unknown at position 29

<220>  
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 <222> (31)..(31)  
 <223> n = unknown at position 31

<220>  
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 <222> (43)..(43)  
 <223> n = unknown at position 43

<220>  
 <221> misc\_feature  
 <222> (48)..(48)  
 <223> n = unknown at position 48

<220>  
 <221> misc\_feature  
 <222> (55)..(55)  
 <223> n = unknown at position 55

<220>  
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 <222> (127)..(127)

<223> n = unknown at position 127

<400> 63

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cctgatncat cggagtaagt agcctgcgaa agcaaatgct gtaaggcgtg tccaaatttg      180
ttgaataaaa ttgatacctc ttttagagac agaagagaag gtatattgcc ctcaggagga      240
tttagactta aaattaatga tgctaattgg gttgtatcca caattttact tttattgcg      300
atactcaaca tccatcctga actcttttgg aatatcttct cttcttctct agtataagga      360
tctaaataaa atccagccag tggcaattca gctgcagaat catgtatatc aaaatacctt      420
acatctttat gccaggtatt catatttgac ctttcgataa ttttaatacc atacaacttt      480
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<210> 64

<211> 164

<212> DNA

<213> Ctenocephalides felis

<400> 64

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<210> 65

<211> 490

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (4)..(4)

<223> n = unknown at position 4

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<221> misc\_feature

<222> (12)..(12)

<223> n = unknown at position 12

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<222> (19)..(19)

<223> n = unknown at position 19

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<222> (22)..(22)

<223> n = unknown at position 22

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<223> n = unknown at position 41

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<222> (74)..(74)

<223> n = unknown at position 74

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<222> (107)..(107)

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<222> (216)..(216)

<223> n = unknown at position 216

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<222> (252)..(252)

<223> n = unknown at position 252

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<222> (298)..(298)

<223> n = unknown at position 298

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<222> (450)..(450)

<223> n = unknown at position 450

<400> 65

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ctagcctctc agtaacattt ccaactttca taggtcgacc agccaattca aatccattta 180

actgctctaa tgctttttta gcatcatcgt gattgngaaa cgttaaaaag ccatatccct 240

tagaccgccg gnttccggat ccattatcaa ttgtatgctg tcaatttttc caaaaggntc 300

aaatattcct cttaacatat cttcagttat attgaaatgt aacgaaccaa catataatct 360

catgggacca gtatggcctt tgggtgctaaa ttgggcattg aattacccat gcgatttttt 420

tcagcctgtg tgcgctgaac tacaatcggg attcctaata acttttgcct ggtagacct 480

aaggcaatgg

490

<210> 66  
 <211> 97  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 66  
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 tttggtcgggt gttgatcagt tcttagtcaa gacaggt 97

<210> 67  
 <211> 533  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (30)..(30)  
 <223> n = unknown at position 30

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n = unknown at position 73

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 tccagaagga aaacaattgt atcaagattg gggtgttgac cagaaccgca atattgtgca 180  
 tattttggaa gatctgccat catgtcgtcc tccaattgat catctgtgtg aattgttacc 240  
 tcgcttaciaa ccacgttatt actcaatttc aagtagtgct aagctgtttc ctaccacagt 300  
 tcatatcact gctgttctag tgaagtataa aactccaact ggtagaatca acaaagggtgt 360  
 tgcaacatct tggctggcca agttcaaccc cagtctgag aaacctcaag ttgtgcctat 420  
 atttattaga aaaagtcaat tcagactgcc aaccaggtct cagactcaa ttattatggg 480  
 tggcctggcc aaatctcttt cttgtataaa tcctctgaaa ggagccaaac ctg 533

<210> 68  
 <211> 439  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 68  
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 gaacacgaac gtcaatggac ctacagattt tggcatcata cctaaagcga tttcatatcc 120



FC-8-C3.ST25.txt

agcatccctt atggattgtc tggccatgga ggaatttctg taattgtgag ccaatccaat	180
atgcatgaaa ggtgtatgat gacccaaagc taaaagacgt aaacctaata cgtgcaaaat	240
attgatcata ccggcaacac cagcatatth tccaaatgct actactcttt ggcccttttc	300
gtccatcaac ttttcataat cgataagacg aatattcttt tccataattg catcaagtaa	360
aggcatatta gattcttggg ctttgataac atgtgaaaac atgcagtagg ttttattggg	420
aattaattgt tctacagg	439

<210> 69  
 <211> 268  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 69	
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ttcaaaaact tttccgagag gtgcgcatca tgaaaatggt ggatcaccca aatattgtaa	120
aactgtttca agtgattgag acagaaaaaa ctttatatct agtaatggaa tatgcatcag	180
gtggtgaagt gtttgattat cttgttcttc atggtaggat gaaagaaaag gaagctagag	240
ccaaatttag gcaaattggt agcgctgt	268

<210> 70  
 <211> 145  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (49)..(49)  
 <223> n = unknown at position 49

<220>  
 <221> misc\_feature  
 <222> (71)..(71)  
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ttgatgcggg cgacgctctc ctcgt	145

<210> 71  
 <211> 327  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (207)..(207)  
 <223> n = unknown at position 207

<220>  
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 <222> (227)..(227)  
 <223> n = unknown at position 227

<220>  
 <221> misc\_feature  
 <222> (304)..(304)  
 <223> n = unknown at position 304

<400> 71  
 gagtgcacag aaaattctct accttgagaa agtttatgga aaaattagag aattgtaact 60  
 atgctgttga tcttggaana cagatcaagt tctcactagt tggatttgct ggacaggaca 120  
 tcaagtgaag gaaatgctac tttaacttta gcgccatat ggcagcttga tgagagctta 180  
 tactttatct gtgttgacac gtttggnaaa cactggaagt ccaatanntg aaagagaaat 240  
 tgttcagtggt gtgaatacca agctagcagg tgccaataaa acaacatctt tgagtagctt 300  
 tccnaggaca aaacaatttc agatgct 327

<210> 72  
 <211> 304  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 72  
 cattgtggat gaggcaaata ccatatacca tgatgaagtt tgcttgtttc gaaagaacag 60  
 ttgaattggt atacactcat gtgggttccca aaccagagc agaatgcact aaagggtgaac 120  
 aattgggtgt cacctttgct gctgggttaca ttgccggtgt attctgtgca gtagttttctc 180  
 atcctgcaga cacagttggt tccaagctaa atcaagacaa aggagcaaca gccattgacg 240  
 ctgcaaaaaa cttggctttg ctgggttatg gaagggatta ggacctagga tcatcatgat 300  
 tggt 304

<210> 73  
 <211> 232  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 73  
 caaagtgatt taccagagaa gtttgtgaaa gacttgggtg tcctcaacgc tttatcagac 60  
 aaagtcttgg aattaacccc cgatgaacgc cctacctgtt cttcttccgc ttatcaacaa 120

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atttcaaadc cccgaagac accgacaaag ccaaaacaga gctcaccaaa gccatcaaaa 180

ccttgagcga ggcttttgat aaaacctaca aaggcaaagt gctgttcaca gt 232

<210> 74  
<211> 339  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (108)..(108)  
<223> n = unknown at position 108

<220>  
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<222> (284)..(284)  
<223> n = unknown at position 284

<400> 74  
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aataagtatg cagaagaata tgttttctta aaacattgga caggaacnca cgaagaagat 120

caagtccaaa taaagaaacg tcgtgaagtc ttggagcgtt ttgcaaact tattgaattt 180

ggtatcatatc cagttaccag cgcgtccttt gttttgatgt attatgtgaa gtgtgaaaaa 240

tgctatggag atatcataaa gaaaatgggt gccacgatgt gcancctcag caggacaaat 300

tgcacccatgg tcatgttcct gagtttggcg aaaatttat 339

<210> 75  
<211> 339  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (108)..(108)  
<223> n = unknown at position 108

<220>  
<221> misc\_feature  
<222> (284)..(284)  
<223> n = unknown at position 284

<400> 75  
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aataagtatg cagaagaata tgttttctta aaacattgga caggaacnca cgaagaagat 120

caagtccaaa taaagaaacg tcgtgaagtc ttggagcgtt ttgcaaact tattgaattt 180

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ggatcatcac cagttaccag cgcgtccttt gttttgatgt attatgtgaa gtgtgaaaaa 240  
 tgctatggag atatcataaa gaaaatgggt gccacgatgt gcancctcag caggacaaat 300  
 tgcaccatgg tcatgttcct gagtttggtg aaaatttat 339

<210> 76  
 <211> 188  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (39)..(39)  
 <223> n = unknown at position 39

<220>  
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 <222> (61)..(61)  
 <223> n = unknown at position 61

<220>  
 <221> misc\_feature  
 <222> (182)..(182)  
 <223> n = unknown at position 182

<400> 76  
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 ntgagcatgc tagatttcaa gaacatcagt ggtctgcaat taactcaacc ccaaacattc 120  
 aatgctaggc gttaatatga aaatgtcagt tatattctta taaataaata tatataactg 180  
 gnaaataa 188

<210> 77  
 <211> 468  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (436)..(436)  
 <223> n = unknown at position 436

<220>  
 <221> misc\_feature  
 <222> (442)..(442)  
 <223> n = unknown at position 442

<400> 77  
 ccacagaatt aaggtggttt caaggcccaa gacttgcaga acactttcat gatcaaagaa 60  
 ttgtcccagt atatttagat atggagggtg aacatccact attcactgaa actattgata 120

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tgtgcttatac	tgtttatcca	cctgatgccg	gacctccaca	tgtaaagctt	cagttagaat	180
ggctctatgaa	agaatatgaa	gaaattattc	aacatccagg	ggatgtttta	gaagatcatt	240
ttagtgtgtc	tgaagtgtc	ccaaaagtga	aatgcaa	cctctaactt	tagagcagtg	300
cttagaacat	tataccagag	cagagactct	ctctgatgaa	gatgcctgga	ggtgtccaca	360
ttgcaaaagt	atatgccggt	tgtaagact	ttgggcttgt	ggcattacct	gatatactag	420
taatacat	taaganggtc	angcagcacc	aaattaaggc	aatagaag		468

<210> 78  
 <211> 382  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n = unknown at position 13

<220>  
 <221> misc\_feature  
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 <223> n = unknown at position 67

<400> 78	
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tccgggnagt	ttttttcttc gcgggggtctc ttcacagggtc tctaattccct ctatttcgcc 120
ttctggacga	tctaattcctg gatgggtgtt gaacaagttg gctacgaacg ctaaattcaa 180
cttataaacg	ccattaacaa catctgctgc tgttaciaag cttctgcatt tgagtttagc 240
agcttggtgc	agcatgatct cagctctctt tgtcatatct tgttccatga gagcttcggt 300
cgtaacttga	gcttctggag gtgcaatttg tttcaacaga atagtataaa cctctgaatc 360
cgaaatgtcg	acttgggaagt ta 382

<210> 79  
 <211> 141  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (55)..(55)  
 <223> n = unknown at position 55

<400> 79	
gtttgtgctt	gcacatatata atattaaaaa tgtctaaaag aggacctggg ggttnagccg 60

FC-8-C3.ST25.txt

gagctaaatt cgcacatctcc ttgggtctgc ctgtcggagc tgttattaat tgtgccgata 120  
acactggggc caagaacttg t 141

<210> 80  
<211> 247  
<212> DNA  
<213> Ctenocephalides felis

<400> 80  
gttgacccat aatcggtttg tagttaacac atcttctact tcattctaaac gctcagcaaa 60  
ctttgaagca aattcgtaaa tatcatccat caatccaatt gggcatatcc tgtgacacac 120  
caccaggacg aatataagca gcatgcattc tagcgctga tactctttca tagaattcca 180  
tcattttttc tctttcctca aaaagccaga aaaaggggtgt caaagctcct acatccaatg 240  
catgtgt 247

<210> 81  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (11)..(11)  
<223> n = unknown at position 11

<220>  
<221> misc\_feature  
<222> (28)..(28)  
<223> n = unknown at position 28

<220>  
<221> misc\_feature  
<222> (31)..(31)  
<223> n = unknown at position 31

<220>  
<221> misc\_feature  
<222> (72)..(72)  
<223> n = unknown at position 72

<220>  
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<222> (74)..(74)  
<223> n = unknown at position 74

<220>  
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<222> (105)..(105)  
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<221> misc\_feature  
 <222> (128)..(128)  
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 <222> (170)..(170)  
 <223> n = unknown at position 170

<220>  
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 <222> (424)..(424)  
 <223> n = unknown at position 424

<220>  
 <221> misc\_feature  
 <222> (457)..(457)  
 <223> n = unknown at position 457

<220>  
 <221> misc\_feature  
 <222> (490)..(490)  
 <223> n = unknown at position 490

<400> 81  
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 attacagtgtt gngntgccgg aagccaattg cgctttttaat aaagnatttt ggtcttttaa 120  
 ttgattgnta cttatcacta cttcctctag ctgactctgg attgcattgn ttgattgga 180  
 taactgctga gcttgcatgc gcaattgcat catctgcata tcttgctctc gaataatatt 240  
 tttatatttg cacaataaag cagactcttg ttcagataac gacatttcag ataaattcaa 300  
 attattgggtt ccatctccaa atgatgttat tgtcttgaca ataagtgcct ctgagagcttt 360  
 gaatagttca caaaattcat aatcaagtaa cagctctcta tacttagtag cttttatagc 420  
 aggntgcttt gcagctaaac tatacatctc gtgccgngag aattttgata gctttgcaac 480  
 aaacgtctcn ctccaatt 498

<210> 82  
 <211> 353  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 82  
 agtatacttt gacaaaatat aaatgccaat atgcagtcga agaataggcg ttcttgctgt 60  
 cttgcacaaa tctccagaca tattgtggga tgttcaaaat tacttttttag aagcagcacc 120  
 aacttttagat tttttcgttc ctgggacttt cttcattctg ttcttacgtt ctttacgttg 180  
 ttacgtgctc tgttgcttct ttcatagag accgtgcctt cctaacctgt gtttaggttc 240  
 aaatttcttg gcatagtcta atgagtcgta gattaaagca aatccagttg atttgccacc 300

accaaagttt gtgcggaagc cgaatacaaa tactacatct gatgtaactt tgt 353

<210> 83  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n = unknown at position 205

<400> 83  
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 tcgtcagaca ttcccataga taaattaact tcttttggtt ctaaatttaa ttccttgcac 120  
 aattgctcac gacattgttt taaagtgaga aaatctgggt tgggtcctaa acttgtatca 180  
 tagccatatt ttccaatagt cattnaacca tcaacaagta gggttgggca attttctttc 240  
 acatatttgt atagagttgt tgcctcattt ggggtgaacac catgtttttc tatttcacca 300  
 cttgtattta tttgaatcat aactcttaat ttatcaccat gaattttatt agctgaatct 360  
 aattttgacc aagcattctg cacactgcgg ctaatttaaa tgagtgaatt gtttcgacca 420  
 tatatatccc aggtatgtta accaccttat taattttatt tctttgaaga tgacctataa 480  
 aatgccattt atttcttt 498

<210> 84  
 <211> 268  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown at position 4

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n = unknown at position 35

<220>  
 <221> misc\_feature  
 <222> (156)..(156)  
 <223> n = unknown at position 156

<220>  
 <221> misc\_feature  
 <222> (181)..(181)



<223> n = unknown at position 181

<220>

<221> misc\_feature

<222> (233)..(233)

<223> n = unknown at position 233

<400> 84

ttgnttccac tttggcccca acagtgagga aaggngtgta ttatttaagt atagcagctg 60

caggattttt ggtattcata attgcattaa caattatacg ttttaataata ttctgtataa 120

tttggatcat aacacttggt aaacatcatt tatggntatt tccaaattta acaaaagaag 180

ntgggggtcct tgcattcattt tggcctctat ataagtatga atataaagga ggngaagcat 240

tagaaaatac tagcaaaaaa aaaaaaaa 268

<210> 85

<211> 223

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (19)..(19)

<223> n = unknown at position 19

<400> 85

aggttcaaca ccaactgtng agtatccaac caatcttgcc aaagggttta agccatgctg 60

tttgcaggat tcttctgatg ctaaaacaat cgctgctgct ccatccgata ttccggaagc 120

agatccagct gtgacaacgc catctttcctt gaaaattgta ggtaatttgg ataaactttc 180

tagagttggt tgtgggtcttg gatgttcac tacacagaat tgt 223

<210> 86

<211> 252

<212> DNA

<213> Ctenocephalides felis

<400> 86

attgccttct ttatctagtc gggttttcat tcttgcgata aaatcgttgg caatttcttc 60

aatccatcca acatattgcc ttgtaatctt atgctgcac atgggctgat ttactactga 120

ccgaattttt tgccattctt ccccttgatga gtgaattaga ccataaacag atttgaaaac 180

ttctgggtctt ttttctctca agtaatatcc tctgtattca aaagctgggc tatcaggcca 240

aggcccttca gt 252

<210> 87

<211> 235

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 87

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aatccaggga gaccatcaga cttgaagatt ttggtcaagc agttgcccaa tccagagaat      60
tcacgttgac cagcgccttt acctacatca gcggccaatc tggtaggggc gaaatcaagt    120
gggtagacga agcacaatga tgtgggtcca gcagcaccac cagatgccaa gtttcctgcg    180
aagtaacgcc agaattgggt cttcttgtca actccacca agaaaacttg cttgt          235

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&lt;210&gt; '88

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (59)..(59)

&lt;223&gt; n = unknown at position 59

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (365)..(365)

&lt;223&gt; n = unknown at position 365

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (404)..(404)

&lt;223&gt; n = unknown at position 404

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (456)..(456)

&lt;223&gt; n = unknown at position 456

&lt;400&gt; 88

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ataaagtatc cggtcaatgg taacgtttca gcagcaaacc aataattagt aacatctana      60
aaaggagctg ataatgacaa agctgctaaa aaacaggtat gtcttaaagc aactcttcta    120
cataatgcag gatcagtaac tgccatcatt ctatacccag ctctactgta atccgggtctt    180
aaattccaag ataatgcatt aaaatgtgga aattgccacg tatataaaag acctcctaag    240
ataaatgctc ctgcacttaa attaccggaa caagcagccc aaccattag gggtagggatt    300
gctccgacga ttgatccaac ccaagtattc agaatactta ttcttttcat tggagtatat    360
acggnggtat ataattattaa attagctgct cctaactctg ctgntaaacc atttacacca    420
aaatatacat acctatcccg tagatgcagc aaccgnagca aaacctacag catgtatgga    480
cttaaaatcc cctgacta                                498

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<210> 89  
 <211> 293  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n = unknown at position 24

<220>  
 <221> misc\_feature  
 <222> (50)..(50)  
 <223> n = unknown at position 50

<220>  
 <221> misc\_feature  
 <222> (92)..(92)  
 <223> n = unknown at position 92

<220>  
 <221> misc\_feature  
 <222> (282)..(282)  
 <223> n = unknown at position 282

<400> 89  
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 gacttgatct tcctcatgta gaattccaat tnttttcctt ctaagatata accatctgca 120  
 cgtccacatt gtccaggacg agaggaaaca gcagctaata gacgaccagt agcaaactgt 180  
 tcttccagag cttgctcaac tttagcaaca cgttgtcttg ttgcatattt tttagccacc 240  
 ttcttactgc gtttttttatt cataactgct tcttcttcag gngtgagctt agt 293

<210> 90  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (28)..(28)  
 <223> n = unknown at position 28

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n = unknown at position 66

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n = unknown at position 73

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<400> 90
cattcatgca aatggggcat catttttntt tatttgtatt tacattcata ttggacgagg      60
aatggnatta ttntagttac aaattacatg aaacttgatt tattgggtta ttaattttat      120
ttttagtaat aggaactgct tttataggat atgtattacc ttgaggacaa atatcatttt      180
gaggagcaac tgttattaca aacttaattt ctgctattct atatattgga aattcaattg      240
ttcaatgatt atgaggagga tttgcagttg ataatgctac ttttaactcga ttctttatga      300
ttcatttttt attaccattt attatttctg cttttgtaat aattcatttg ctttttcttc      360
atcaaactgg atctaataat cctttaggaa ttaatagtaa tatttacaaa attccttttc      420
atccttattt ctctctaaaa gatttattag gatttatttt tttatttaca atattaatta      480
tattaactct tattaatc                                                    498

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<210> 91
<211> 339
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (46)..(46)
<223> n = unknown at position 46

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<220>
<221> misc_feature
<222> (208)..(208)
<223> n = unknown at position 208

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<220>
<221> misc_feature
<222> (223)..(223)
<223> n = unknown at position 223

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<220>
<221> misc_feature
<222> (234)..(234)
<223> n = unknown at position 234

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<220>
<221> misc_feature
<222> (289)..(289)
<223> n = unknown at position 289

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<400> 91
gggatatatt ataagatctt tattttataa taaattatat aatcgntatt tacttgaaaag      60
acaaaatatt gaaattattt gaacaattct acctgcattt atattaattt ttattgcttt      120
accttctctt cgacttttat atttattaga tgattcaaat aggcccttaa tttctttaaa      180
agcaattggt catcaatgat attgaagnta tgaatatact gantttaata atanttcttt      240

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tgattcatat ataattccat ctaatgaatt aaatttaaatt tcatttcgnt tattagatgg 300  
tgataatcga attatcttac ctattaattc acaaattcg 339

<210> 92  
<211> 234  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (49)..(49)  
<223> n = unknown at position 49

<220>  
<221> misc\_feature  
<222> (59)..(59)  
<223> n = unknown at position 59

<220>  
<221> misc\_feature  
<222> (61)..(61)  
<223> n = unknown at position 61

<220>  
<221> misc\_feature  
<222> (68)..(68)  
<223> n = unknown at position 68

<400> 92  
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ngcacctnca acacatatac ggggggtaac agaagtgtc tgcagagAAC tagttgccat 120  
gtctacagtt ccagggggtc aagaactaag gagagcaaaa acacaacttc aatcaatgtt 180  
attgatgaat ttggaagctc gtctctgtgtt atttgaagat ataggtagac aagt 234

<210> 93  
<211> 434  
<212> DNA  
<213> Ctenocephalides felis

<400> 93  
ccaatctttt taaaggtaat ggcttatctt ctgtgatacc tcttgctgtg gaaagagaag 60  
caacttgatc acaataaaca tcagcaccta attcttccat atcaacttct acatcagatt 120  
ttgctatttt tgtggcttca tctacttctt tcttaacttg cgtttccatt tcttcagtt 180  
cttcaggtgt agctagttct gatgaaacca ttctttcacg gaatgaagtg attggatctc 240  
ttgtctgtct tacttcttga atttcttctc ttgttctgta actggtgcca ggatctgaca 300  
ttgagtgcc tgaatatcta taagtcatag tttctaaac aattggacct tttccagttg 360

tgcaatgttc aattgcatat tttgatgctt cagcaccgc taacacatcc ataccgtcaa 420  
cccaaattcc aggt 434

<210> 94  
<211> 347  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (58)..(58)  
<223> n = unknown at position 58

<220>  
<221> misc\_feature  
<222> (243)..(243)  
<223> n = unknown at position 243

<400> 94  
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tccagtggct gatgtggttg caggaagccg aatctactga tgaggatgga gaagcttaag 120  
tgtggaaata agaaacaaaa aatatgaaaa actctgataa aaaggaattg taagtttagg 180  
tcacccttca tattgaacca atataaatgc ttaacatctt ccaataaacg aattatatat 240  
ggntttaatg aagtcagatg aaaggatgaa cagcatatta tctagaagaa aaactaaagt 300  
atgctcgtca cacttcggaa aatgctaaga atgttttatt gactcgt 347

<210> 95  
<211> 440  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (38)..(38)  
<223> n = unknown at position 38

<220>  
<221> misc\_feature  
<222> (129)..(129)  
<223> n = unknown at position 129

<220>  
<221> misc\_feature  
<222> (134)..(134)  
<223> n = unknown at position 134

<220>  
<221> misc\_feature

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<222> (164)..(164)
<223> n = unknown at position 164

<220>
<221> misc_feature
<222> (188)..(188)
<223> n = unknown at position 188

<220>
<221> misc_feature
<222> (230)..(230)
<223> n = unknown at position 230

<220>
<221> misc_feature
<222> (239)..(239)
<223> n = unknown at position 239

<220>
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<222> (289)..(289)
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<220>
<221> misc_feature
<222> (303)..(303)
<223> n = unknown at position 303

<220>
<221> misc_feature
<222> (307)..(307)
<223> n = unknown at position 307

<220>
<221> misc_feature
<222> (349)..(349)
<223> n = unknown at position 349

<220>
<221> misc_feature
<222> (417)..(417)
<223> n = unknown at position 417

<220>
<221> misc_feature
<222> (419)..(419)
<223> n = unknown at position 419

<400> 95
gaaaggacca ttaatttata ataattatTT taatttgnga aaaaaaaaaa aaaaaaaaaa 60

ggggggggcTT gtacaagcTT tctttttttt tttttttttt ttggctatat cgaaatttat 120

tactcaagnt tttntacagc tttaaacaat tattgatcct tatntttgcc attgtagtag 180

ggcaagtntt gtaaaaactaa tttccaatca gtgaagtagc aaagggcatn tgcaccagnt 240

agacaaaaac cagcagacgt tcttaccac tgttttgctt gctcaatgng tttactcccg 300

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agntttntca aaatactcat ttgtcttact taaatcaatg ctctctggnt tcaataaata 360  
 attttaagcg cagaatttag ctttgcgcta ttgtttcaaa aaaaaaaaaat aaaaaanana 420  
 aaaaaaaaaa aaaaaaaaaa 440

<210> 96  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (493)..(493)  
 <223> n = unknown at position 493

<400> 96  
 tttccttggtg ctaattcaat tggtcgggga tgaagtgccg gctctggaac cccttgaaca 60  
 acttcagaaa ccaaatacgc aactctagcc tgacttgtct gtgaaccagt ttgtccaggt 120  
 gtgttagcag aactttgaat gataagattt tggttggcag caagactctg tccacacata 180  
 tttctccgtt tatgagatgc taaatcatta ctttgggcaa aagctctacc acaaaccata 240  
 caagcgtagg gcttttcacc tgtatgtgtc ctcatatgta tagctaactt atcagatcgt 300  
 gcaaatacctc tgttacaaac actgcataca aatgggtttt ctctgtatg ttttctcata 360  
 tgcaatgtaa gatctgtagt tcttggataa cctttaccac agattttgca aaaatttgtc 420  
 atttgaccag tatgtctccg catatggacg gctaaattac ttcttgaact gcaactttta 480  
 ccacaaacac tgnataat 498

<210> 97  
 <211> 186  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (30)..(30)  
 <223> n = unknown at position 30

<220>  
 <221> misc\_feature  
 <222> (63)..(63)  
 <223> n = unknown at position 63

<400> 97  
 accacgaggt gcaggcggaa ttccagttan tttaaagggt cctaaacgat tggtatcttt 60  
 ggncataacc ctttctcctt catagacttg aattgttact gcaggctgat tgtctgcatg 120



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agtgctgaag gtttgtgttc ttttacatgg aattccttgca ttgcgttcaa taatccttagc 180  
cattgt 186

<210> 98  
<211> 270  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (36)..(36)  
<223> n = unknown at position 36

<220>  
<221> misc\_feature  
<222> (40)..(40)  
<223> n = unknown at position 40

<400> 98  
catattttac aactgtatga gtttggatta aaaatnaatn cctatgtata ataatatgaa 60  
aataactatt ataattacaa caattatagt tttgaataaa aatcagttat aaaatcacaa 120  
aaactgattt atattttaca gcaaaattgc ttataattaa gcttcttatt ataattaatt 180  
ttttatttca tttctttgca agctcatttg ataaccaatc gaggccttca tataaaccgt 240  
gcccttgtgt tgcacatgta gcttgaatgt 270

<210> 99  
<211> 279  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (23)..(24)  
<223> n = unknown at positions 23 and 24

<400> 99  
agattaataa atttaaatat gtnnaacaaa ttaaactggc aaggaaacttt gcactatgag 60  
cttattgatg taatgatttt tcaactggtat cgttatctat aagtaaaatg ctataattaa 120  
tcttaaaagg ctaaaccggc ttcagcataa gttgtgaaga tcttttcaat agagttttaca 180  
tatgctgctg ttctcaagtc caatcccaaa ttgaatttca ttgctgtctt cagcatagct 240  
cttgcagacc tttccattgt gtagtccaag ccagaatgt 279

<210> 100  
<211> 193  
<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (31)..(31)

<223> n = unknown at position 31

<220>

<221> misc\_feature

<222> (33)..(33)

<223> n = unknown at position 33

<220>

<221> misc\_feature

<222> (38)..(38)

<223> n = unknown at position 38

<400> 100

cgacacgccc caagttaccg acctccagtg ntnatgcnc aagtttcctgg aatcaaactt 60

aatataatct gtgatcttag aactggcaat atccacctga acagtatcgt ttactttgat 120

taaaggatct gggtagcgaa tgggtcggcc atcatgtggt gtcaagaatg gaatatTTTT 180

gggtccatt tgt 193

<210> 101

<211> 110

<212> DNA

<213> Ctenocephalides felis

<400> 101

tcatgaatat caagagtcta ctataggtgc tgcgttttta actcaaactg tgtgtctgga 60

tgacacaacg gttaaatttg aaatttggga tacggctgga caagaaaggt 110

<210> 102

<211> 323

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (5)..(5)

<223> n = unknown at position 5

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n = unknown at position 16

<220>

<221> misc\_feature

<222> (23)..(23)

<223> n = unknown at position 23

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n = unknown at position 66

<220>  
 <221> misc\_feature  
 <222> (75)..(75)  
 <223> n = unknown at position 75

<220>  
 <221> misc\_feature  
 <222> (82)..(82)  
 <223> n = unknown at position 82

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown at position 406

<220>  
 <221> misc\_feature  
 <222> (436)..(436)  
 <223> n = unknown at position 436

<220>  
 <221> misc\_feature  
 <222> (441)..(441)  
 <223> n = unknown at position 441

<220>  
 <221> misc\_feature  
 <222> (471)..(471)  
 <223> n = unknown at position 471

<220>  
 <221> misc\_feature  
 <222> (499)..(499)  
 <223> n = unknown at position 499

<400> 102  
 aagcatcagg aggccactct gcaatggcta aaacagtcgg tttcccagca gcaattgccca 60  
 ccaggatgat tttggatgga gaaatccaaa aacgtggagt tgttttgcca ttcagtgaag 120  
 atatttttata ggccaattct tagcagattg agagctgagg gacttcatgc cacagaaacc 180  
 gttaaagttt tgtaagatgg aggagaaaca ctttgtttta ttatcgtgaa ttcattaatc 240  
 gattttgaaa atatgactgg ctcttttagc attatacata tttttaagct cgctttgata 300  
 tatcaagaca taagtattta ctt 323

<210> 103  
 <211> 462  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (23)..(23)  
 <223> n = unknown at position 23

<220>  
 <221> misc\_feature  
 <222> (36)..(36)  
 <223> n = unknown at position 36

<220>  
 <221> misc\_feature  
 <222> (426)..(426)  
 <223> n = unknown at position 426

<220>  
 <221> misc\_feature  
 <222> (431)..(431)  
 <223> n = unknown at position 431

<220>  
 <221> misc\_feature  
 <222> (442)..(442)  
 <223> n = unknown at position 442

<400> 103  
 ttttgatgtc atataaatgc cancaattaa accaantaga ccaatagcag aaccaaagat 60  
 ttcaacaatg agaattttga caaatagtgc agaattggca gcatcagcaa gagctgctcc 120  
 agatccaaca ataccaacag cgataccgca gaataaattc acaagaccaa cagccaaacc 180  
 agctccaaaa agaacataac caccatcca atttgcttct ttatatcctg ctttttcaaa 240  
 aacagatttg tctgtgtatt ccgctaacag tcctgacaga acaattgctg taattaaacc 300  
 ataaatagca acagcttcac agaaaataac tgaaattaag ttttttggtt tgattctggg 360  
 cgctttcaca ccacctcta caatggatgt gcctgtggta tgaattccaa caagctgctc 420  
 caacanctga naatgctacg gntaaacaat tcctaaggga gc 462

<210> 104  
 <211> 484  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> n = unknown at position 16

<220>  
 <221> misc\_feature  
 <222> (25)..(25)

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<223> n = unknown at position 25

<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown at position 31

<220>
<221> misc_feature
<222> (39)..(39)
<223> n = unknown at position 39

<220>
<221> misc_feature
<222> (89)..(89)
<223> n = unknown at position 89

<220>
<221> misc_feature
<222> (116)..(116)
<223> n = unknown at position 116

<220>
<221> misc_feature
<222> (287)..(287)
<223> n = unknown at position 287

<400> 104
agccgtggaa aacctnacgg aaccncaatt nctttcggna gcccgccag ggacgactac      60
agggaaacaaa tgcgatgaa gcccgtttnc ttattaagga aagcaaacta aagatngtag      120
cccaagatga tttggatgat gcagctgcat tagttgtcag tttatctcat tacatatata      180
ctttgcggtt aatttaatga gatatgcata gtatatatta atctttcttt tttttcactg      240
cacatgcaaa gctaaattta gccagcagaa tgtgttattc aacacangtc gtattgttta      300
gtcgtgtaat gtcaacatgt attgcccatt ttgattggat tccttaatac aggatatcag      360
caccacttgt taagtttgaa actctaggta ggatatgac atatttatta taatgcacat      420
ttattatggt actaatgttc aaaatgattg atgatcgatg attgatatca ttgtcagtaa      480
tagt                                          484

<210> 105
<211> 373
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (55)..(55)
<223> n = unknown at position 55

<220>

```

```

<221> misc_feature
<222> (330)..(330)
<223> n = unknown at position 330

<400> 105
gaggctcatc agcgtgggtcc acttcttttg acggcaacac ttcgtaaggt tcctnggact . 60
ctaacgggatac actgagtcca acctcgtttc gcgcaaatat tcgtatcaag tattegttct 120
gtcctctgtaa atccctgata gtaaaattct gaatagaagc ctgaacgcgt cctacttcca 180
tccacatagt tttcttaaca tctctaatac ctatgttgta accctcgatg ggagcaccac 240
cgtcgggattc cggaattccc caacttatca caatattatt tggacctaca cttctcatct 300
ctaaggggggc agttggagga gatggcacan ttgcgtgagt ttttagagta acattccttg 360
ttactgcgggc cgt 373

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<210> 106
<211> 231
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (60)..(60)
<223> n = unknown at position 60

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<220>
<221> misc_feature
<222> (88)..(88)
<223> n = unknown at position 88

```

```

<220>
<221> misc_feature
<222> (119)..(119)
<223> n = unknown at position 119

```

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<220>
<221> misc_feature
<222> (157)..(157)
<223> n = unknown at position 157

```

```

<220>
<221> misc_feature
<222> (192)..(192)
<223> n = unknown at position 192

```

```

<220>
<221> misc_feature
<222> (232)..(234)
<223> n = unknown at positions 232, 233, 234

```

```

<220>
<221> misc_feature
<222> (263)..(263)

```

<223> n = unknown at position 263

<220>

<221> misc\_feature

<222> (280)..(280)

<223> n = unknown at position 280

<220>

<221> misc\_feature

<222> (284)..(284)

<223> n = unknown at position 284

<220>

<221> misc\_feature

<222> (342)..(342)

<223> n = unknown at position 342

<220>

<221> misc\_feature

<222> (354)..(354)

<223> n = unknown at position 354

<400> 106

tattccttgt ctggcacata atattttcgg ctttgatata caaatgaatg atattccttn 60

ggtgcatatg gttaacacct tcacaaantt gtctcatgta atctatgact tctgcttong 120

acatacgata accgtcagcg gtgatgcgtt caaacanttc accaccagat aagaattcca 180

aaatgagaac cntttcatca tcattcttga atgcatcatg aagattaatc a 231

<210> 107

<211> 411

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (145)..(145)

<223> n = unknown at position 145

<400> 107

aaaaaaaaatgc aagaagaagt gtaggcataa tcactttccg cctccctctc gtatcggcta 60

aaaatcccca taaatgtgaa ctgcttataa tacctataaa agctatagcg cttaatatc 120

ctttttgttt tgttgtaaat tccanacac attgtgctga aggaacgaca aaactcatc 180

caagagtttc catcaaaaaca catactaata cgcattccact cagaccaga agaaggtaat 240

tgaattttcc aaaacctgtg agtgccaacg catcttcaaa ctgccttggt tttggttctt 300

tggaagctat tatttgaatc cccgtgttac tgtccatatt tattaatttc caaactacag 360

attcaattaa accgttttgt ttaacagtct aacagtaaaa aaaaaaaaaa a 411

<210> 108  
 <211> 261  
 <212> DNA  
 <213> Ctenocephalides felis  
  
 <400> 108  
 tctcgggtgga atcgatttct gtagtttcgt cgttaactga caatattaga gccaataaat 60  
 atttcttaga aacatcaaca gccacgtag tctgtgcaag attggtagtt ggtatatccg 120  
 taatgataat ctgagggttgt tgctgggttta ccgattgttg ctgggtttatc gattgttgct 180  
 ggtttagcaa ttgctgctgt tgccagagaa atttttgttc ctgaactttt tggattgtgc 240  
 gcaactgctg ttgatgtaag t 261

<210> 109  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown at position 33

<220>  
 <221> misc\_feature  
 <222> (62)..(62)  
 <223> n = unknown at position 62

<400> 109  
 atttgtatgt aagaaataat tcacatctat tcntaatgaa gaccaaataag ataattgaaa 60  
 anccacaaaa acaacatccg taggttcatt attttgatca tatttaaata gcatgttggt 120  
 ggtccacaaa tcaccatgat ttaatacatt tatacagcca ggacgcattt tagttgaagc 180  
 cattgctctt tggataattg tatccttcat attatataat ttttttgaat atttttgata 240  
 gccatcccaa attgatgtag cttctgaaag ctccaccagc gcttttaaca gcaattgatt 300  
 catcagatgg tcttcagatt ctgtttgtat aaacctaata gtgtaatcat caactgaatg 360  
 aggatccttt agtccatga caatggatgc agcatgcata tgtgcaattt tgtccataag 420  
 taaagtagaa tgtgcaatat ctaggcctct tgtccttttt cccattttgt aaccacctat 480  
 tgccaaatcc gtcataac 498

<210> 110  
 <211> 356  
 <212> DNA  
 <213> Ctenocephalides felis



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<220>
<221> misc_feature
<222> (142)..(142)
<223> n = unknown at position 142

<400> 110
tttttttttt tttttttttt tttttttcct cttttatttag tataataata tctacaatca      60
tctaattata tcaaattaat tattaatgat gtccatgacc atgatgatca tcttttaggat      120
tcattttttt ccacgccttc tntaatgcga ctgttactac tgtagcagcc agtccccatt      180
tgaatcctcg gaataaaaag cccatcgctt ggctccttct tgttccaaat tcttttgtat      240
taaatcgcca tacttcattt ctcagccatg ggtctttaag tcctttactt gcaagagcct      300
tttggacttg aactaattca ggggcatctt caactttgta aatcctataa tctgggt      356

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```

<210> 111
<211> 500
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (498)..(498)
<223> n = unknown at position 498

<400> 111
gctcattgag tatccgcgaa tgaaactaaa tgagctttca acattggact taagcaacaa      60
tgattttttca atattaccag aacaactcga cataaatcta atgcccaatt tgagacacct      120
ttcactaagt ggaaatccaa ttcgcaaaat taaatttgaa aatatccttt ccttggaac      180
gctcgagata aacgatatgt caagacttac agaaatttcg ggactcgaaa acatacatgg      240
aagaatattt gtcgaatcaa ataaaccttg tgttcatctg agcatttcaa attgtgaatt      300
gctgggttaa atacaaaatg atgcttttga aaatataaat ttatgtagtt taaatttgag      360
tcataacgct ctgaaagaag tgccgctctc ggtgccaaac gacatagaac ttgatttaca      420
gggaaaccct ttgatatgct cttgcagcct acaatgggtt tagacgatat attaccattt      480
tgtataaaca tcacccanac                                     500

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<210> 112
<211> 189
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 112
tcacgttca ggtcagggtg cttttggaaa tatgtgtagg ggaggaagaa tgtttgcacc      60
caccaaacc tggcgagat ggcacgcgaa gatcaatgtg aaccaaaaac gctatgcttt      120

```

ggtttccgca attgctgctt ctgggtgtgcc agcttttagtt atgtctaaag gacatgttgt 180  
 tgatcaagt 189

<210> 113  
 <211> 131  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 113  
 aacaagtgtc tctggtcata aattatgatt tgccttccaa cagggaaaac tatatccaca 60  
 ggattggtcg aggtggacgt ttcggtcgta aggggtgttc tataaacttt gtcacagatg 120  
 aggacaagcg t 131

<210> 114  
 <211> 102  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 114  
 attccctgaa taagagggaa taatcgctct ccaagcatct gtttctgttc atgagccggt 60  
 gctgcggcaa gcatggaagc ggtgagtggc tcttggcctt gt 102

<210> 115  
 <211> 299  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 115  
 gcgaaagaac atgtcgtata ccgtctgaaa gaagtaatga ggactggcag gactcaaaaa 60  
 atggcccttc cagcgaaaaa gaagcacatg cttatgatgg gcctcccggc atggaacccg 120  
 atggcgtcat cgaaagtaat tgggatgagg tgggtgataa tttcgatgat atgaatttaa 180  
 aagatgaatt acttcgtgga atctatgctt atggttttga aaagccttca gcaatccaac 240  
 agcgagccat catgccatgc atagtcggtc atgatgttat cgcacaagct caatctggt 299

<210> 116  
 <211> 403  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (60)..(60)  
 <223> n = unknown at position 60

<400> 116

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```

cccggtattg ctgaccgcat gcaaaagggtt aatcactgcc ttggcccat ccaccatggn      60
agatcaagat catcgctccc ccagaaagga aatactccgt atggatcgga ggatccatct      120
tggcctctct ctccaccttc caacagatgt ggatctccaa ggaagaatac gacgaatccg      180
gacccggaat tgtccaccgc aagtgtctct aagcgctttc taccctctag caaacaccaa      240
agaaagtgcc gtccggaaga aatggcggtt aagaaattat gcgcggccca tcgcgctttg      300
cgcatcgtaa ttgcgcttcc ggtcaatatc accggatatg ctattgcacc agcgaccatg      360
tgcacaaaat tatttgtaat ttattaattt attattggac tgt                        403

```

```

<210> 117
<211> 229
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (181)..(181)
<223> n = unknown at position 181

```

```

<220>
<221> misc_feature
<222> (185)..(185)
<223> n = unknown at position 185

```

```

<220>
<221> misc_feature
<222> (187)..(187)
<223> n = unknown at position 187

```

```

<220>
<221> misc_feature
<222> (192)..(192)
<223> n = unknown at position 192

```

```

<220>
<221> misc_feature
<222> (205)..(205)
<223> n = unknown at position 205

```

```

<220>
<221> misc_feature
<222> (207)..(207)
<223> n = unknown at position 207

```

```

<220>
<221> misc_feature
<222> (211)..(212)
<223> n = unknown at positions 211 and 212

```

```

<220>
<221> misc_feature
<222> (215)..(215)

```

```

<223> n = unknown at position 215

<220>
<221> misc_feature
<222> (217)..(218)
<223> n = unknown at positions 217 and 218

<220>
<221> misc_feature
<222> (222)..(222)
<223> n = unknown at position 222

<400> 117
caggattttca tgggtcttcat gttttaattg gaactttcttt tcttattatt tgtttactac      60
cacttagatt atttcatttt aatcctaaac atcatttttg atttgaagca gcagcttgat      120
attgacattt tgttgatgta gtatgattat ttttatatat ttctatttac tgatgaggtc      180
nattnancag anaggaaacc tgtanancca nntgnannaa anaaaaaaaaa      229

<210> 118
<211> 469
<212> DNA
<213> Ctenocephalides felis

<400> 118
atttcggacg accccaaaaa taatatcgac gaggaaaaac atttgaaagt cgtgcaattt      60
aaggacaaca agcccgaaga cgacgcggtg gaaatttccg aatatttcag atacaatgac      120
gttatcaaag aaggcgatat tttagtgcgg gctccggcgg aacgacttat tcacaaacta      180
aaggacggcg acgactgcgt ctgcatgaac tggaggggtt gcaaaggga aataatcgac      240
ggtcacccgt gtcctcagag ttacatagac gtctgctgcc aaactgagca gaattttgat      300
gaagataaaa acgaggagca gttgacattt aggaaattat tgttatcgaa acaataatca      360
tgatattttt tgtaacattt ataagtgcac ttgtgaaatg taccaaactt tgcaatttgg      420
taaataataa ataaacaaat ttgttttaaa aaaaaaaaaa aaaaaaaaaa      469

<210> 119
<211> 500
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (428)..(428)
<223> n = unknown at position 428

<220>
<221> misc_feature
<222> (444)..(444)

```

<223> n = unknown at position 444

<220>

<221> misc\_feature

<222> (460)..(460)

<223> n = unknown at position 460

<220>

<221> misc\_feature

<222> (467)..(467)

<223> n = unknown at position 467

<220>

<221> misc\_feature

<222> (475)..(475)

<223> n = unknown at position 475

<220>

<221> misc\_feature

<222> (491)..(491)

<223> n = unknown at position 491

<400> 119

gttcttactt atatctagat tatcaggttt atcgagctct agaatacgtc taagaatacc 60

atattgtata ctcatttatt aaatggaaca tttttttaa gtgaatcaaa ataaaattcg 120

tatttgacac tttggtatgt gtaaacaaaa aatgagcagc aaatcaacca atagtcacca 180

atatagtagt atctgtctag aagtgactca aatgataaac acaactgtga tcataaaaaat 240

tcaataaaaag acgagaaaat caagatcatg ttaaatacaa gcatcgttca agatctcgta 300

gtcgttcata tgatagaatt gattcacatg atagattttc tagtaaagaa attacaacag 360

agattcaaac tttctcatag tatgaaaaag ttccaactta gaatcatccc gttcaaaaac 420

attgcttngc cttttccaca catnagccac cttggggccn aggatantag catangcaca 480

aacttgaatt ngctgatcaa 500

<210> 120

<211> 218

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (186)..(187)

<223> n = unknown at positions 186 and 187

<220>

<221> misc\_feature

<222> (197)..(197)

<223> n = unknown at position 197

<400> 120

FC-8-C3.ST25.txt

```
ctcgagtttt tttttttttt ttttagaaat ttactgaaac agaatacttt agattaatta      60
ttatatacag taaacaatct tgatgtgata gtttattttt gagcaatata tttatctctt      120
aggcaaaata ttattttatg cataactgta cattttattat caataaaaaa tataatatga      180
ccacannttt tttaaanaaa aaaaaaaaaa aaaaaaaaaa      218
```

```
<210> 121
<211> 500
<212> DNA
<213> Ctenocephalides felis
```

```
<220>
<221> misc_feature
<222> (460)..(460)
<223> n = unknown at position 460
```

```
<400> 121
gttattttct aatctgtacc atcacagttt actcgagaag ttatggatga tttcaatttg      60
ctgttagaat tgccatgtcc agataaaaga attgcagaaa tattatacga agtgttgatg      120
atcgacgcgg aaccttcccg gagtaccgtg aaaaagaagt ttacattaga aaacaacggt      180
ataaaagtgc cgttgttcaa gtccaaatgt gaaaaattta cgtgtcgccg tgaatggttt      240
gtttgacaat ttttatttgg ttctgcaaac gattgatact tttgggcccc caaacccac      300
ctatgattac tattttgctg atttaattgc ttccaagtga ttcttagcaa ttcaaaatgc      360
cagaacacac acctgcccct acaccgagca gagcgggtgta tggatttgca ttatatTTaa      420
caatgaaatc ttgttttttg cttatgttgt atgggtctatn gtacctgatg atattctctt      480
atgctgaatt atattatctc      500
```

```
<210> 122
<211> 500
<212> DNA
<213> Ctenocephalides felis
```

```
<220>
<221> misc_feature
<222> (490)..(490)
<223> n = unknown at position 490
```

```
<400> 122
tataaatgat ttaattcaga agcaaggcag ttatgtaatt ttttgaatat atgtgataag      60
aaaaacattt aaaattatat tagtgtaaag tagaatttac gtgaaagtaa gatgtggggt      120
tattttaata gaatttttgc tgcggtgttg attatatattgg cagtgtcagc aagggaatcg      180
aattcccaaa aacttactgt tgatggattt aaaggtgatc ctatagaaga atttcgtcag      240
```

FC-8-C3.ST25.txt

gaatattcta cgttttttaa aaagggcgaa gtatcaaaga agttacaaaa acttactgat	300
ttactattaa aaccgagtga tgaaaatgat tgtgcaaaat gccaaatfff ggcaacatfff	360
gcaatcgaaa gaagacgtaa tgggacttcc aatgcagaga tgaattcttt gatgaatgat	420
atgtgtataa gattaaatat atggatagga aaatgtgtga aaacatgata tatatgcatt	480
tggatatcgn ctgatataat	500

<210> 123  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 123	
ggatgataag gatcttgtat tcatcaccaa ccccgatcaa agagaaaaag attgtaaagg	60
tttcttgatc aatttgattg attcacctgg acacgttgat ttctcatctg aagtaactgc	120
tgcacttcga gtaactgatg gagctcttgt gggtgtggat tgtgtttcag gtgtgtgcgt	180
tcaaaactgaa accgtattgc gtcaagctat tgctgaacgt attaagcctg ttgtgttcat	240
gaacaaaatg gaccgtgcac ttttggaatt gcaattggac tctgaagaac tgtaccaaac	300
tttccaacgt attgtggaaa atgtgaacgt tatcattgcc acatactctg atgatactgg	360
tccaatgggt gaagtcgtgt tgatcccagc aaaggttcag tggttttgga tctggcttca	420
tggatgggct tttactctaa aacaattctc tgaaatgtat gctgagaaat tcaagattga	480
tgtactaaat tgatgaacag	500

<210> 124  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (86)..(86)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (134)..(134)  
 <223> n = unknown

<220>

<221> misc\_feature  
 <222> (177)..(177)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (189)..(189)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (254)..(254)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (285)..(285)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (306)..(306)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (332)..(332)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (339)..(339)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (411)..(411)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (419)..(419)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (485)..(485)  
 <223> n = unknown

<400> 124  
 gtttngtttc ttattgttta gctatattt atcaaaatat taaatcttat aatgctggta 60  
 tatcaactgt tttataaat cgaatngggg atgtgacttt attaattaga atttcttgga 120  
 taataaatta tgg nagttga aattatttat tttatataaa atatataata aataatnttg 180  
 aaataatcnt aattatattt ttgatccaat tcctgcaata actaaaagag cacaaattcc 240  
 tttttcttct tggntaccag ctgcaatagc tgccccaact cctgnttcag ctttagttca 300



FC-8-C3.ST25.txt

ttcttnaact ttagtaactg ctgggggtata tntaataant cgatttagag aattattaat	360
aaaaagtaat ttatttatTT atttattatt aatttctaca ttaactatat ntatatcang	420
attgggagct aattatgagt tgatttataaa aaaattattg cttatctaca ttaagacaat	480
taggnTTaat aataagaagc	500

<210> 125  
 <211> 436  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (346)..(346)  
 <223> n = unknown at position 346

<400> 125 cgccaacctc agatatagtg gcaggTcctg gttccaatat tcgaataatg ggtggttcca	60
actcgcgctt aaacgcacga tatgctacca aacaacttct gatgagccat gctgagaaac	120
gaattaatcg gaatagttac tccacggata tttattaagt tatttcataa taagtgtttt	180
gacatgttag attaaaagct ttattttctg aagcaacttt aaattttagg aatttgtatt	240
ctacaaatgt tgtagaacaa aacggatata aagatacgca caaggTgcat aaaatagaag	300
aaaatgaaaa agtaagccaa agatttagca aatgttcaaa tattgnagtt tcaaattattc	360
tctcaattct ttttgataaa tatctaattg cgaattaata aaatgtctga attattaata	420
ataaacagat tagcag	436

<210> 126  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n = unknown at position 6

<400> 126 ctggcncttt gtatacatc cccgagaact tccgtgctta caaatcttta atcgctgcc	60
aattttcggg tgctaattgt aaagtagcag ccgattttgc attcggagag acgaataagt	120
cagaatcggt cctcaagaag ttccctgcgg gaaagggtcc agcgttcgaa agcaacgatg	180
gaaaatactt aagcggcagc gatgctattg cttattatgt atcaaTgcc caactacgtg	240

## FC-8-C3.ST25.txt

```

gcgccctccga cttggaaaag gctcaaattc tacaatgggt agattttggc aatggagaga      300
ttgtgcccc atcgtgtgca tgggtgttcc caattttggg aataatgcag ttcaataagc      360
aaaccactga ccgtgcaaag gaagatgtca aaagtgccct ttccgtcctc aatactcatt      420
tagtaaataa cacatatctc gtcggtgaaa gaataacttt ggctgatatc agtgtgttct      480
gtcattactt cacctgtcca                                          500

```

```

<210> 127
<211> 500
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (468)..(468)
<223> n = unknown at position 468

```

```

<400> 127
gagttcttta ccctcactga aaattgcttt attttctca aattgcataa tttaaaaatg      60
cttttgacaa tagttcattt gaacatgtgc acattttaaa tactttattt tatttaagtg      120
tgatttagct taattgttaa tttttaattc atctactgta gactacaaca atggccaaat      180
ttctggtaca ctcttcaatt tttggttggt tcagtattgt gagttatttc atcgggtgca      240
atatcgaaag aaaaaatata ttaaaccatt tcaaatccca aaacattgat ttgaatgttt      300
tgagcaaggt atgtacatac ataaaaattg gttgcggttg gtagtccaga aaatcgcgaa      360
tctgtgtaac tgaggactgg ataaatgaga ttagttgggt atcctataca ctgaacactt      420
gaagaatata aaaattgtat ttgtaattca cagatcaaga aaggctgntt accgattttg      480
gcactgttca gcagcaactc                                          500

```

```

<210> 128
<211> 500
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (6)..(6)
<223> n = unknown at position 6

```

```

<400> 128
gcagtnccgt aaaaacctca ccaagtaatt cgctccatga ttagatatcc ggagtgatta      60
cccttatcag tgcagttgtc gcaacgtggg gttagcagtt gtgggttatgt gcgtagtttt      120
ttagtacatt agtgcccgtt tgagtgttaa tattgagttt ttttttgcac caaaaaggat      180

```

FC-8-C3.ST25.txt

taatgacacg tgctttttcca agtatacttt ggcatgaggg aatgtcttgc gcgctgagcg	240
caacgtaatg cgaagaactc gtgctgcggt catttgctgc agcagcagaa ggccgcgtgg	300
gcggagacgg cgcttcactg gataatagaa aattcaaaat ttttatctaa ccatttgtct	360
taaaaataat catacgaaat actctaccat ttagtaatta atcttccttc tgcaaacctt	420
caactgatca atttgatatg tgatatacta atatctatta tattatttaa taactaagat	480
tttatgaatc tgtattatat	500

<210> 129  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n = unknown at positions 4 and 5

<400> 129	
gatnnatccg atttcgggtg tgcttgggct agtgtgttcc tgctatcatt tgatcttttc	60
cctccggaag aatttgaaaa tgcaccagac cttacattac tttgatacgg agatggtgct	120
gctcttttgca ttacagaatt gccagcattg tttgtcggac cacttggccc tacagctggg	180
ggcggagtaa aacttgttct ttgtggaaag tttggccctg catattgacg aatgtttgaa	240
ttttgtggag gtggatatct attttgtgta ggactggctg tattggctgt cactcccgca	300
acaggaaatc tttgcgcat aataacttaa cttaaatgca ttcagaaaaa taccttaaac	360
ggtatcaatg attttcacaa ttcataatta aaataggtaa aaatgcataa ccttataaac	420
taataataca tcgaaatgat tttgcagttg tataataacg atattctttg aagttggata	480
aacacgaata ttaaaactta	500

<210> 130  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 130	
aaaataaact cttacacata tttttagata tacagacaat atattttatat cttattacgt	60
atacaatatg tgtatctata ttataaatac atatattgca tcataaataa tttggtgtat	120
tctacatttg tcaatggtcc taaaattaca atcgatcaaa attaacactt caaacctcat	180
tcattcttga aaatgtaaca caatattaga aaattaaact aaaaaagcat attttcacac	240

FC-8-C3.ST25.txt

gctattaaat ttacacaaat aacatcaagc aattaagcac ttactttacc acatctaatag	300
catataataa aaaaaaaaaat ctaagctaag gtttgtatta ttaatgtaat tatttggttt	360
ctattgcgca attcatatctt ccaaggtgtc aattaacaag tgatctttta attaaatata	420
aactgttact ttatatgtgt ttaactatc accaaattta tgtgatgaag tctataatct	480
ggtgattggc aaaaatttcc	500

<210> 131  
 <211> 494  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 131	
tgtaactaga attttatctt tgtattaata tttaatttaa taatttgaca tgaaaattta	60
tcgttcagct ctctgatttc aaaggattct aagcaagact acttggttaa acggtataag	120
ggcgactcct gaaaaaacga aatgaagaaa gtgaagcgag tcagtgatgt gggggcagtg	180
ggtccaccgc cgacagcccc tccatctat atggctgagc ctcaatatgc acctataccg	240
caaatcaaaa actttaatgg aagtataaat cctaattatg ggtacaatca acaaaactgca	300
aaccaaccat ttgtgccata ttccgggtcaa ccaaattacg gacaacagag tcctgctcag	360
ttccatcaaaa cgccgtctaa tccaatgatg tcttcgcaaa taccaaatca acaaatctct	420
ggtcccaaaa atatgaatat tccaccacaa ttctcaatgt ttcaacaacc cttggtcaag	480
gaatggcaat tcag	494

<210> 132  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n = unknown at positions 4 and 5

<400> 132	
ctgnnacagt gaatgacata agatggcgac tagtatatgt gtttctaggt gccagatatt	60
gtttaaaaat gaaataaata ggataggact gcgggcactg ttttatacac ttcagggtct	120
taaagaatct cgacataatt ccatccacac gtgcgcctct tcacacccaa cgctagtgcc	180
taatgatcgc aacaatttga cgctgtcat cagcgcagct aaaaaatcat cggaatatga	240
ggctgtcgag gtgacgtacg ctgccgggct gccacaaata accgttccgc tgccaagcag	300
gcgagagcgg tgccgattca cgttgcgacc ggtcacaaac accgtcggcg acttcatatc	360

FC-8-C3.ST25.txt

tatgctgcgc tccgaggacc agggcgtcga tcgagtagtt tgcgtaacct gctccggaat	420
acgaattgct ctccgacagc atcgaagctt tactcgaacg gccttcctttt ggatcatcaac	480
gacaggaagt tgaggtagat	500

<210> 133  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown at position 4

<220>  
 <221> misc\_feature  
 <222> (10)..(11)  
 <223> n = unknown at positions 10 and 11

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> n = unknown at position 17

<220>  
 <221> misc\_feature  
 <222> (36)..(36)  
 <223> n = unknown at position 36

<400> 133	
atgntttatn nctaaangtg ttcaatgcat tctgantttg cgttgatgag aagtgattag	60
tatcaaaaat ttataaaata tgtggaagtt tattcaattc acgatatttt tcagcgtgct	120
gcgatttggg gcaagtttgg agtggttacag ttgtgaactt gcaaagaatt cgaactgcac	180
agttcctctg gctggtactc taccagttgc aacaaagcac gaccatattc taggaacaaa	240
atttttcatt catttttgaa agacaattcg acatatgatt tagatgaact tgagaaaaac	300
aaagaagaag aaagcttccg atgtctgttg gttactggag aaagagtttt caatcatgga	360
tttatagaaa aaggtgtgat tagagaatgt gtccctgccg agtcacatgt gaagaaataa	420
agaaagattt aacaaataaa ggagcccgagg atctaaattg caccatgtgc gacactgact	480
tggtaatggg tcttagacct	500

<210> 134  
 <211> 0  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 134  
000

<210> 135  
<211> 500  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> n = unknown at position 4

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> n = unknown at position 7

<220>  
<221> misc\_feature  
<222> (35)..(35)  
<223> n = unknown at position 35

<400> 135  
gatnttntcg aacaattcaa tctaccaagt ttatngcgaa caattgataa taaaaaataa 60  
ataaataatt acttgtgtcc ggatgaacga atcatgctcc taacccatt tggatgaagat 120  
ggactctact aaaccttttt gtgaataatg aacagttttt gtcagtgttc accaactatc 180  
aacccccgat actaattaag tgcgactgat cattaattga catgtctcga gtgatttacc 240  
caaagcaatt aactaattaa ccaattactt aagtacagct aattacaaac ccagcgaaaag 300  
gtacacatac ctgcacaact gcatatactc acatttcaat aatatgaata tttcctgttc 360  
atgtaaacca ctcaattaat ttaatcactg ataaattgaa catttaaatt tccttcttga 420  
atacgaataa atttacctaa attagagtca cggctgttta ttaaaacttta attatcaatt 480  
aatcaaaaaa tgccatgcca 500

<210> 136  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> n = unknown at position 6

<400> 136  
aaagtntaat atatatcttt taatataccg tttgtttcat atataaaaca ttaataaaat 60  
ctaagataaa caataccaag ttactatcat agataagtaa acataactat actacgggta 120

FC-8-C3.ST25.txt

```
ctatatgtac ttgagttcac tagaattttg ttttctataa caaatgctac agaagtgtag 180
tattaaaaaa caattagggt ctcgaaaagg cgcggcatct tcagatttcc aaattgcatc 240
taataattca ctgcaactga ctttccaatc atctgatgtc acagacctca aatttcttct 300
agaaactgaa agatacatct attcaatatt ggaaagacca tttttaattt tgtaatgtta 360
tatgaacaaa ttttatatac taaaattgaa tcatttacag taattttcaa attaaccgga 420
gattcacata atcacgtc taacacattc atgcacatgg gaaaatttca agtgtcaggg 480
acttgggtacc ttttctacta tcctcaaata ctacttcttg gatcattatc attttctggt 540
tcgctctct 549
```

```
<210> 137
<211> 549
<212> DNA
<213> Ctenocephalides felis
```

```
<220>
<221> misc_feature
<222> (7)..(7)
<223> n = unknown at position 7
```

```
<220>
<221> misc_feature
<222> (499)..(499)
<223> n = unknown at position 499
```

```
<220>
<221> misc_feature
<222> (523)..(523)
<223> n = unknown at position 523
```

```
<220>
<221> misc_feature
<222> (537)..(537)
<223> n = unknown at position 537
```

```
<400> 137
gtgcttntat gctatttcaa taaatgtttg ttgaatgaaa aggaaattta ttgttgtttt 60
gggtgcattg ttttggcact agtgataaaa acttaaatga aatttggtgtg tttataatgt 120
gattttcttt aattaaaaat tatttaaatt ctctggtgta tgtaagttg atcaaagtaa 180
acatgaaacc ttatcatcga acattagtta attattgatc ataaaataat atttggtgaa 240
atgacctaaa aattcaataa cattttgctt aaacaatatt tatcactaca taaaaaacat 300
gctatgaatt attgcgttga ttaagttccg acactttgct atattattta ataaatattt 360
tatttatttt aattgtgatt aaaaactttt atcgggtaat tgctaaactt aattcgatat 420
```

FC-8-C3.ST25.txt

tttttgctaa cgcatttttg cggaatggct ggatttatag aagttgccat atgtttggct 480  
attctttact ggctattcna cgcaagaccg ccagcaatgg tangttagt ggcagancga 540  
atgtggtct 549

<210> 138  
<211> 392  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (33)..(33)  
<223> n = unknown at position 33

<220>  
<221> misc\_feature  
<222> (380)..(380)  
<223> n = unknown at position 380

<400> 138  
agatttgaaa caaaacaatt tgaagataaa gtngtactta cacagaatga aaaggatttt 60  
gaaaaaaatg ttgaaaagaa agaagcaaac gtaaatttag aaacaaataa ggaaacatct 120  
gtgaaaaata aacttaacga aggatttata aaaatcaaag attttttttaa attttaaatt 180  
ttattttatc atccaatttt atttaatttt tatgtcatgt atcatcaa atgaaatga 240  
aagcatgcat taggataaat gtcaacatat ataatgcaaa gtcgttacat attttgtaa 300  
taatatgaaa tacatttact atggtattaa tttttgtttt agatacttta tttagaaata 360  
ataaatataa aagaccggn aaaaaaaaaa aa 392

<210> 139  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> n = unknown at position 5

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> n = unknown at position 7

<220>  
<221> misc\_feature  
<222> (517)..(517)  
<223> n = unknown at position 517



```

<400> 139
gtcantnata aaaaaaaaaat ttttttcaaa aaaaaaaaaac aaaaaaaaaat taaaaaaaaa    60
tttttttttaa aaaaaatttt ttttcaaaa aaagtaattt tttgtccaat ttatagtttc    120
ttaaaaatcg tattttttcg aagtaaattt tttttaaaaa tgtcaatcgt ttttaaaaaa    180
ataataattt ttggtacggg aagttccagc aatttgcctt aaggcacgat gccttaattg    240
ccttaagaca gaattccact tacagctagt ttttacttga tttgatagag gaatagttac    300
agcaactatc caggtttatt acgtataaat atgatcagtc gatttcaaga tatattaatt    360
tagaagaaat tgttacaact agcccctatc tagcttcctt acttagatat gtttacttag    420
atattccctt ccctacgtag atatttttcc atgattagaa atttatttat aagtaaattt    480
tcttttttat tcgtagtat taaatataag gttatgnatt tataatctttg ggatagggtat    540
acatgagta                                                                    549

```

```

<210> 140
<211> 115
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (3)..(3)
<223> n = unknown at position 3

```

```

<400> 140
aanttttagtt acatagttat atagaggatg agaagtttaa gttttagct tattttatca    60
ataaatgttc aaaattatga atcgatatat tcataactca aaaaaaaaaa aaaaaa    115

```

```

<210> 141
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (537)..(537)
<223> n = unknown at position 537

```

```

<220>
<221> misc_feature
<222> (540)..(540)
<223> n = unknown at position 540

```

```

<400> 141
attttcaagt acccattcgc tcgatctcga agccgcacgc agacattttt atttaaataa    60

```

FC-8-C3.ST25.txt

```
cgattatgta gcataattga ataatttttc cgaattgtaa taatgttttt atcttccgat 120
attgataaac attgacctga tgttcctgca aataagattt tcttttctaa aacgaaacct 180
gaaagatacc acatactttt cctcatgcat gtaagataaa gttttgtgga attgttttaa 240
aataaaggca agatgcggcg aagtactact aaacgttcta tggtgactga ttacgatgat 300
agaagtctgg ggccagtgc taaaaaatcc aatgctagtc ctgatttatac aatgggtcaaa 360
cagtacacat caattagccc tcagcagact actgttagtt atcatttggg ggatcatggc 420
tacggtgcta ctctcaaca tcaaattatg cgggacatac cagttgctcc acctagacc 480
acagaggctg tcaaacgtcg acttaacttg acatgacaag ttcagtccca gttcctnctn 540
ctcgaccaa 549
```

```
<210> 142
<211> 375
<212> DNA
<213> Ctenocephalides felis
```

```
<220>
<221> misc_feature
<222> (68)..(68)
<223> n = unknown at position 68
```

```
<220>
<221> misc_feature
<222> (210)..(210)
<223> n = unknown at position 210
```

```
<220>
<221> misc_feature
<222> (253)..(253)
<223> n = unknown at position 253
```

```
<220>
<221> misc_feature
<222> (292)..(292)
<223> n = unknown at position 292
```

```
<220>
<221> misc_feature
<222> (329)..(329)
<223> n = unknown at position 329
```

```
<220>
<221> misc_feature
<222> (366)..(366)
<223> n = unknown at position 366
```

```
<400> 142
agagcagagg ggcattagaa aataaactat tagcagctgc tgaagatctg agaaaaactt 60
taagagangg tggtaatgtg actaatggcg aagttatgga tccttggttc cttgaaaatg 120
```

FC-8-C3.ST25.txt

ttgatgctga cattgaattc caaacattgc caagttaaac ggagctcttg ccaatgtaac	180
aagtagaggg tttgtctagt ttcaacatan atcacataaa agtgaatgtg ctcttcatga	240
aagctacttt cantatcact ttttgaccac ctcatggcaa agggctctata cnacatttga	300
aggcaagttg gcagatttgc taagttgtnt ggcaaaggct cctttgatat tcatgttacg	360
tgatantaaa ccgct	375

<210> 143  
 <211> 533  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 143	
gaagtttact aacgctttga taaagtatcc taaataaaag tataacggtg gtttttgatt	60
gaattaattg taaaatcaat aagatataaa gttgttaaata aaggtaatct gtgctagaaa	120
tgtatattgt gctccggagt cgagaaataa tctaaagttt agccgtttgt caccgagacg	180
ctatttctga cagttacata tcaataaaag tatcatatct tgttctgatt cgtgaaat	240
acaataatgt ctgagttaat gttatgttct gaacactgat aattactgtt tagtgttttt	300
caatagattt cctcaaaact gttctacagc agtggactca gaattgtgct aaaagcaagc	360
cgaattcggc ttttaataaaa aagtgaataa tattgacctt ccatccgaga acgatacttt	420
tcacaatcag tcagactttc tgtaatgtac ccaaataatct tccaagagca cacaccaaag	480
aaataagctt cgttctcccc gttacttgta cactcaaaaa aaaaaaaaaa aaa	533

<210> 144  
 <211> 414  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (284)..(284)  
 <223> n = unknown at position 284

<400> 144	
tgcaaaat	60
agtgacaat cgccaaagca aaatgtatag tgtagagac tcattagttt	
tagtattgct tgcttgctg gtcgcgccaa gttacaggc cactcctacc tacaaagctg	120
gcgtcgtaga atactatccg tcccagaatg agaaattcga agagaaaatt aatgaaaatt	180
tgaagtttta tgaaaaaaca attgaggaag cagaaggcaa gaaggtagac atcctagtgt	240
ttcccgaagc aaccttaa	300

FC-8-C3.ST25.txt

ctgagatcaa atttccaaat aaagacagtt taggcccaac aaaattaaaa cagccgccgt 360  
cttttttgga aaaattatcc tgtaaagcta tggaaaagaa atctacgtag ttgt 414

<210> 145  
<211> 350  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (4)..(5)  
<223> n = unknown at positions 4 and 5

<400> 145  
gaanncatct atcaaaatgg ccaaacgtac caagaagggt ggaattactg gtaaatatgg 60  
aactcgttat ggagcttcct tacgtaaaat ggtcaaaaag atggaaataa cccagcacgc 120  
caaatacact tgcacatfff gtggaaagga tgccatgaaa cgtagttgtg ttggaatttg 180  
ggctcttgcaa aagatgtaaa agaacagtag ctgggtggtgc ctgggtatat accacaactg 240  
ctgctgcctc tgtccgatct gctgttagga ggttgagaga aacaaaggaa cagtaattta 300  
tattgatctt aataaataat taataaaaat taataaaaaa aataaaaaaa 350

<210> 146  
<211> 217  
<212> DNA  
<213> Ctenocephalides felis

<400> 146  
cccttcagta tttcttttat tttcaattac gaaaatcaga aaacagttat tccaagatca 60  
tggttcttgt tcccttcttt aagtttattt cctatcctaa agtggttaact attactacct 120  
aaactgcat gatatttggt atgaatgatg ttgacatgat gtccgaagac gttggctaag 180  
atgcggtaaa attctgttcc tggatcatcat cggtccc 217

<210> 147  
<211> 489  
<212> DNA  
<213> Ctenocephalides felis

<400> 147  
catttgcaag aattatcagt gtaatccaaa aacaatcctg tccgcacgca agcaaagggt 60  
tgcatggtc ctggtcctgg tggcggtggt ggaggtgcag ctgtcgcaa gcactcggat 120  
aaaggcgctt gcacgcattg tgggtaaagc gcgctgaagt atgtctgtcc ggcgcatgta 180  
aaacgacca cgttgaaatt tctccagag agtctcacac attcaaaata tactttgcat 240

FC-8-C3.ST25.txt

gttttgtctg ctggatctgc aaatgagccg ctctgcacgc agctgtatat gggcggcggc	300
gtaggtggtt gccaaaggcg tggaggatct cttaggcact ccgaaaggga agcgaccaca	360
cattgctgat agaagtaagt agaaccaagg acaattgtaa cgcgctacac tgaatcctcc	420
gcctgctttc aaagcacatt tgtagtatcc tttgcaagtg ctgtcatagg gatctataaa	480
catcccttc	489

<210> 148  
 <211> 489  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 148	
aaaaggttta caagtctcaa agattccgtg caggtaaagg taaaatgcgc aacaggcgtc	60
gcatccaaag acgtgggtcca ttgatcattt acaaccaaga ccagggttg aagaaagctt	120
tccgcaatat ccctggaatt gaattaatca atgttgaaag acttaacttg ttgaagtgg	180
cacctgggtg tcatgttggc cgtttcgtga tttggactga atctgctttc aaaaaactag	240
atgagttgta tggaacctgg aaatcgctcat caaaatctaa agctgggttac aatctaccac	300
aacctaaaat ggctaacact gatttggctc gcttgttgaa atctgaagaa attatgaagg	360
ttcttcgtgc tacagttact cgcagggtta aaaaattgaa ccattgacc aatgcacgag	420
ccatgcttaa attgaatccc tatgcagcag ttactaaacg taaagccatt cttgctacta	480
agaagaagc	489

<210> 149  
 <211> 289  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 149	
agttaaggct ctatattgct ggctacctct tgctgtcaaa ggtgcgaagc caggcatgaa	60
gaaatgtaaa cgtgggaatg gaaccatggt tacagctaat tttctcaaat cagcattaag	120
ttgaccaggg aaacgaaggc aggtggtgac accagacatg gtaagagaaa ctaaattgatt	180
caagtctcca tatgttggag tgctaagttt caatgttctg aaacaaatat catacaatgc	240
ttcattatca atacaatagg tttcatcagt gttttcaact aattgatgt	289

<210> 150  
 <211> 171  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 150

FC-8-C3.ST25.txt

tgcttggaga aagtgcagtt ggaaaaagtt ctttggtggt aagatttgtc aaggggcagt 60  
 ttcataaata tcaagagtct actataggtg ctgcgttttt aactcaaact gtgtgtctgg 120  
 atgacacaac ggttaaatTT gaaatttggg atacggctgg acaagaaagg t 171

<210> 151  
 <211> 413  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (405)..(405)  
 <223> n = unknown at position 405

<400> 151  
 acacaattag caataggaaa atctagccac aaatattttt aacaatttat ttaataactta 60  
 tgttctagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt 120  
 taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactatat aatgattatt 180  
 gaaataatgc ttttatagat tgcatttcaa tctgtattaa attgtatgta aatcacagca 240  
 caagatctaa cacacaattc atctaacaga aagaacaaaa taattttaat gttattaaaa 300  
 attacatata aaataacttt tacaataaag taaccttaca tgagatgtgt tgatttcaga 360  
 tacttttcat acaacagtgc tttctgtata aacaatataa tatanataac ggt 413

<210> 152  
 <211> 418  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (402)..(402)  
 <223> n = unknown at position 402

<400> 152  
 ttgacaagca aaataaaata catcaacgtt gttttttacg gccacttgca agttatttaa 60  
 tggttccatt ttttgaacaa ctccatttgt tccaagaacc aatgatgttt catatgtttg 120  
 tgatggttgt aaattcggaa cttgtaatgg tgcaccaggt gccagaccaa agctgttttt 180  
 attcaactgt atggcaaaac cactcatagc ttgcattgct ttgttggtgt agctcatgtc 240  
 catgtaaate tgtccacttc tcctggagaa tgttccatat atttccaaac ctttgccctt 300  
 ttcagctggc aaccacaatg cttttggtat aacaaaaggg ccagctgac ccacagagaa 360  
 tattttctccc agaagtccag agttaccgat gttattaagt anaattgaca tctgatgt 418

<210> 153  
 <211> 340  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (196)..(196)  
 <223> n = unknown at position 196

<220>  
 <221> misc\_feature  
 <222> (285)..(285)  
 <223> n = unknown at position 285

<400> 153  
 gaataactggt tcataaaatt tagaagccct aatttaccgc ctacggcgat atgatgatca 60  
 gacatatgtc cgggcttggt caaaaatgta aaatgcacat gggaattttc caatggcggtc 120  
 cacttatgaa taatattggg aagtcctagc aattgcgtta tcaaattttc ctgcacgggt 180  
 tgaaaacaat ccttangcat cttcaaata tcccttaca tttaccctg gttaattaat 240  
 ttggtaaact cgtcaccgga tttgtcgagt gtcttaactt tatcngcgat gctgggttctg 300  
 cacgcgtcca attttcggcg tgttttgtcc aaatcttgggt 340

<210> 154  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 154  
 tacgagtgc cattaaacgc tcgaggtgta ttgcagctgg ccgatatgc ttgtgcagct 60  
 gagttatatt tcaacagcgt tctgcagcag tgcgtacctg cataccagtc agactgttta 120  
 ggtgcaagtg tcaactcttc cccatccata ccatccttac catccttacc atctttccca 180  
 accttgccaa catcttcccc aacagcagga tttccttttg gccgaaaatc tcttgatatg 240  
 caaacaaaaa ctggaactaa atgtacaaaa ggagaagttt ctaaagacga tttaaattct 300  
 acatgtacct agtgagtgtg ttatatgaaa ttgctattgc atattacata caagcttaat 360  
 aaagggttatg gtgatttatt tcatttaaag gcaatgtatc ggtttaatgg ttttaaattt 420  
 atttttatatt aatattaaat agattaatta aaaatctata aagtgataag aggctgatat 480  
 ccataatatt attgaata 498

<210> 155  
 <211> 102

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 155

agaccaagta aaaatctcac tcacagcttt taccttatta ggatcattta aaaatctatc 60

tagaatgccca ggttttgccca gagattgctg cactttctta gt 102

&lt;210&gt; 156

&lt;211&gt; 462

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 156

aatttgcgga aacacctcag attttagcgg cagcggaaga aatttgtgga ccttatgtct 60

ggggccggtta tgatttactt gttttacctc cttcattccc ttatgggtgga atggaaaatc 120

catgcttgac atttgtaaca cctactctat tggctggcga cagatcgcta gtgagtgttg 180

ttgctcatga aatagcacat agctggactg gaaatttagt cacaaattgc agttttgaac 240

atctctggct aaatgaaggt ttcactgtat ttgtagaata caaaattcag ggaaaattgc 300

atgggtgaaga tgtagagac tttcattcgc tttgcggact cacaacattg aaagaagagg 360

ttcaactatt aggtgaaacc aatcaactga ctgctctcgt tgttaactta caaaatttaa 420

gtcctgacga tgcattttct tctatacctt acatgaaagg ct 462

&lt;210&gt; 157

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 157

atcctttttt tctatgaacg gttttaggta acggagaata atgtaaggca tcactaaagt 60

cgttttttatt tgtgatttca tgattaggct cgggtcttct gacccgcata aattgacccc 120

gcaattttgc ttcctttgcc tcgtttgatg atacagcccg ccaatccaaa aataataatt 180

ttggtaaattg atgt 194

&lt;210&gt; 158

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (58)..(58)

&lt;223&gt; n = unknown at position 58

&lt;400&gt; 158



FC-8-C3.ST25.txt

```

tttttttttt tttttttttt tttttttttt ttctgcatca gataatacct cataagcngg      60
tcctagatct tgaaacttcg aggctgcac tggatcggtt ttattcttat caggatgcaa      120
ttccttttgct tgtttcctat aagctttctt aatttcattt aacgtcgcac tacgagatac      180
ttttaatat gaatagaaat ctggtccagc gctggctagt aaaaaataaa tacttaagtt      240
aactaacact aaataacaca gtttg                                     265

```

<210> 159  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

```

<400> 159
cttggcatct agttttgtaa attcagtttg gctggttatt ttgctgcgat atttcaatgg      60
atTTTTtcgta tctggaggaa gtgcaacaat atatgcatat ttaggagaat ttcataatcc      120
taggcacgc agcagggcta ttatgggagc gtcaagcatc ttcggttttg cgtgtcttgc      180
attaccgacg gttgcatggt taattataaa tcagaaatgg tcattctata ttgacttttt      240
gggatataca tacaagccct ggaggttgta tatgggttgc tgtggtttgc catcactgct      300
ttgttgTTTT gctttgtgga aattaccaga aagtcccaa tttttgatga atcaggggaag      360
aaacgaagaa gctcgtcaaa ttattgccaa aatgtataga attaatactg gtaaaccaga      420
aagtgaattc cccgtatcat caatcttaga tgaatatcca ggagtggatg gtgaaaatac      480
aaataaaaca aagaaatc                                     498

```

<210> 160  
 <211> 617  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (573)..(573)  
 <223> n = unknown at position 573

<220>  
 <221> misc\_feature  
 <222> (577)..(577)  
 <223> n = unknown at position 577

<220>  
 <221> misc\_feature  
 <222> (579)..(579)  
 <223> n = unknown at position 579

```

<400> 160
ccatttgcaa ggaattatca gtgtaatcca aaaacaatcc tgtccgcacg caagcaaagg      60

```

FC-8-C3.ST25.txt

```

gttgcgatgg tcttggctct ggtggcggtg gtggaggtgc agctgtcgcc aagcactcgg 120
ataaaggcgc ttgcacgcat tgttggtaaa gcgcgctgaa gtatgtctgt ccggcgcgatg 180
taaagcgacc cacgttgaaa tttcctccag agagtctcac acattcaaaa tatactttgc 240
atgttttgtc tgctggatct gcaaatgagc cgctctgcac gcagttgtat atgggcggcg 300
gcgtaggtgg ttgccaaggc gctggaggat ttcttaggca ctccgaaagg gaagcgacca 360
cacattgctg atacgtgctg ctgaagtaag tagaaccagg acaattgtaa cgcgctacac 420
tgaatcctcc gcctgctttc aaagcacatt tgtagtatcc tttgcaagtg ctgtcatagg 480
gatctataaa catccctttc tgcacgcatg aaaaaagaag cggcggtgct ggtgtaattg 540
gccgtagtcg tagtaatcgg acaattggag gangcanang tgtaattaaa cattccgaat 600
atgtagggcc cacacat 617

```

```

<210> 161
<211> 450
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (34)..(34)
<223> n = unknown at position 34

```

```

<220>
<221> misc_feature
<222> (65)..(65)
<223> n = unknown at position 65

```

```

<400> 161
agaattagaa ttgacacaaa atgctttagt gaangaaatg aaattaaaat tgatgattat 60
tgatngattt tataccaaat gaaatcaaag ataaatttta tgcaaagca aagtttgatg 120
aagatttgga catatggaca gttgcaataa ctaaagaaat gttgccacca agacgaccga 180
tatccaaacc aggacggcgc aggcctatct ctgaggtctc tttggttaaa agacattacc 240
ctggcttggc aggtatacgt cacagaggtg agaatattat tgagtatgac ttgggcatgc 300
catttcgcac cacatttgaa tacgaagccc caacagtgtc cccagcgta caatcagtat 360
tagaagatgc tttacaacca gaaggagatt tagaaatcac ttcaccccggt caaccgtctt 420
cagactgccc aaatcatgaa aagacctagt 450

```

```

<210> 162
<211> 420
<212> DNA

```

<213> Ctenocephalides felis

<400> 162

```
ctgaattcca gatgtagtga agtaaggaat ctcaaatttc acttgtattg ggggttttcc      60
ttccgtatct tcacattcca cacttggaac tccaaaatgt gctctcatta ggtattcttt      120
accacctgga aatgatttta tggaccaagt aaatgcattc aaatcaggag catatttaac      180
acttccaatt gttgttttaa acttcgggga atctgcatca gctggtacag gaatcagtat      240
ctccacatta tttgcagttg accgtctttt aaattgtgac ttagctttga tcatgtattc      300
tacacggctg tgtgctgccc tttcaattac tgattcaatc catatcaagg gttttacatg      360
tgtgttaagt cgataagaca ttaactcaaa ctctccatca ggaggaataa atgatatggt      420
```

<210> 163

<211> 498

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (27)..(27)

<223> n = unknown at position 27

<400> 163

```
tacaatggga attgtcatgt tcaaatnctt ggctgctggca attatacctt cggctataac      60
atcacacctc attattcctc caaatatatt cactaaaata gcaatgacct taggatctgt      120
tgtgataatc ttgaaagctt ctttgactgt agaagcagtg gccgcaccgc ccacatctaa      180
aaagtttgct ggggtctctc catgtaattt aattatgtcc atagtagcca tggcaagacc      240
agcgccatta accatacatc caatatttcc atccaatgct atataattca aatcaaattt      300
tgaagcttct acttccttag gatcttcttg agtccagtct cttagggcaa aaagtctttt      360
ttgtcgaaaa tgagcattgt catcaaagcg cattttgcag tctaagctga aaaatatatc      420
ctcagatttc cttgatattt cttttgaatc ttcagcaaat ggattgattt caatgagtag      480
tgcattcttc tttaaaaa                                     498
```

<210> 164

<211> 218

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (12)..(12)

<223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (70)..(70)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (74)..(74)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (87)..(87)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (108)..(108)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (125)..(125)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (129)..(129)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (157)..(157)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (160)..(160)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (163)..(163)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (206)..(206)  
 <223> n = unknown

<400> 164  
 cctgggtggtt tntggtagtg ggggttttgg tggttctaataat gggaggattt ggtggaggat 60  
 tttggcttan gggntgggaa tcggganggt tccattgggtt tcattcangt ttgaacttgg 120  
 agcanttgng gatgggctta tttcatcatt cggttgantgn ggntgggcgt ctttaacgtc 180  
 actggtaaataa aaacgcctgg gcccanggtc aagtctgt 218

<210> 165  
 <211> 373  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (44)..(44)  
 <223> n = unknown at position 44

<220>  
 <221> misc\_feature  
 <222> (50)..(50)  
 <223> n = unknown at position 50

<220>  
 <221> misc\_feature  
 <222> (300)..(300)  
 <223> n = unknown at position 300

<220>  
 <221> misc\_feature  
 <222> (334)..(334)  
 <223> n = unknown at position 334

<220>  
 <221> misc\_feature  
 <222> (359)..(359)  
 <223> n = unknown at position 359

<400> 165  
 caaaaatggg cacctcaact ggtgcaaac gtttttggct tttnttgggn ccgtggtctt 60  
 tagacaaacg tgccagaggg cttttcacga aaaccaaggg gagggcattg tcattcctga 120  
 gaagggcgca agcaaaaagt tctcaagggc agagttattg cagttggccc ggcaaagaaa 180  
 ccaactggtg aacatgtgcc cctaggaatc aaaagtgggtg acatggtttg ctgccgaatc 240  
 cgaggcccaa aagttgagct cgaagagaac aagaattcct tattcaaaga atccgatatn 300  
 cttgccaaagt tggatatcga cgaataaatt gccnaaaatt taccatcttt cacaatttnc 360  
 ccaacacaaa ctg 373

<210> 166  
 <211> 390  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 166  
 aaatctcgc cctgcaatct tccccaaacc aaccaaccga tcaaatagga agccaactcc 60  
 aagctgtcca agttctccca acaaacctcg gtttgcacac acacagacac caaaacaact 120

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```

atgctgtacc ccaacaaacc aactttggat cctttcacca tcaccaacaa atcgcaccca      180
caaatatggg gggctactac tccccccacg gaattctacc aatctactac gataatgggc      240
acggattggt gaattttaat cctttgaagc ctcaaaacta ctacgccagc tattatcctt      300
actaccagaa cacgagacag tattatcctt acaattttgg atattattat catcacagtt      360
tgccgaattc gcactactac aggcagcagt                                     390

```

```

<210> 167
<211> 500
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (6)..(6)
<223> n = unknown at position 6

```

```

<220>
<221> misc_feature
<222> (8)..(8)
<223> n = unknown at position 8

```

```

<220>
<221> misc_feature
<222> (10)..(10)
<223> n = unknown at position 10

```

```

<220>
<221> misc_feature
<222> (14)..(14)
<223> n = unknown at position 14

```

```

<220>
<221> misc_feature
<222> (17)..(17)
<223> n = unknown at position 17

```

```

<220>
<221> misc_feature
<222> (35)..(37)
<223> n = unknown at positions 35, 36 and 37

```

```

<220>
<221> misc_feature
<222> (52)..(52)
<223> n = unknown at position 52

```

```

<220>
<221> misc_feature
<222> (56)..(56)
<223> n = unknown at position 56

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (231)..(231)

&lt;223&gt; n = unknown at position 231

&lt;400&gt; 167

```

aggggngntn tatnatnaat ttttctttga cgacnnnggt taaggggggc cncggncggg      60
tattttttca taatcattca atattaatta ttttattaat tacaatttta gtgggatata      120
ttatgagatc tttattttat aataaattat ataatcgtaa tttacttgaa agacaaaata      180
ttgaaattat ttgaacaatt ctacctgcat ttatattaat ttttattgct ntaccttctc      240
ttcgactttt atatttatta gatgattcaa ataggccttt aatttcttta aaagcaattg      300
gtcatcaatg atattgaagt tatgaatata ctgattttta taatatttct tttgattcat      360
atataattcc atctaataaa tttaaattta attcatttcg tttattagat gttgataatc      420
gaattatctt acctattaat tcacaaattc gtattttta tctgctaccg atgttcttca      480
ttcatgaacc attccctctc                                         500

```

&lt;210&gt; 168

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (30)..(30)

&lt;223&gt; n = unknown at position 30

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (57)..(58)

&lt;223&gt; n = unknown at positions 57 and 58

&lt;400&gt; 168

```

atatatctta catcgaatct aataacattn aagagttatt aattttcatg tcgatgnntt      60
agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa tcgataatac tttctcaaag      120
tataattgca tttcacaaca cagcagggaa atatgggtat ggtccatatg aagcaatgct      180
cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcactccaca      240
tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat      300
tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatc      360
tgccattgcc ctgagttgtg tagggtagag atctactaat gccgcgttta cactgtcac      420
agcaattccg caaaccagca accacaaata taaatatgat gctattgtta aatgttcaat      480
aatgcacaa attattcc                                         498

```

```

<210> 169
<211> 232
<212> DNA
<213> Ctenocephalides felis

<400> 169
tgtaaacagc actttgcctt tgtaggtttt atcgaaggct tcgctcaagg ttttgatggc      60
tttggtgagt tcagtttttg ctttgtcggg ttcttcgggg gatttgaaat ttgttgctaa      120
gcggaagaag aataagctag gacgttcata agggggttagt tctaagactt tgtcagataa      180
aagcggttgag gacaccaggt ctttcacaaa cttctctggg aaatcacttt gt              232

<210> 170
<211> 288
<212> DNA
<213> Ctenocephalides felis

<400> 170
gataagaaca gtggactctc gtgctcttgc acttctctat gttgaatagg agcaccgccc      60
aatttgtcat caagttctac agtcataatg gctgcggcac ctgcctcata ttgtgacgtt      120
tccaatccaa gccagaaatg aacatcccag ctaaattggc ctttcttgtc ttcttttagta      180
ttcaggatga tgtatgagtc tcctgtgtag aattttccaa aatcattttt aggatacgcg      240
acgggttcaa aattctctac acgccacacc tocaagcctt tggtagta                    288

<210> 171
<211> 500
<212> DNA
<213> Ctenocephalides felis

<400> 171
gttaattccc attaacacgc ggcgtttttc gtttagcaat tcaataaatt acacacttca      60
caatggctga tatggaagat actcatttcg aaactggaga ctctggagct tcagcgacct      120
atcccatgca atgttctgca cttcgaaaaa atggttttgt aatgttaaaa tcccgccccg      180
tgtaaaattg tagaaatgtc cacttccaaa actggtaaac atggatcatgc taaagttcac      240
atggctcgga ttgatatttt caacggcaag aaatatgaag atatatgccc atctactcac      300
aacatggatg tcccacatgt aaaacgtgaa gattatcagc tcaactgacat tgatgacggg      360
tacttaacat tgatggctga caatggagac cttcgagaag atcttaaaat tccagatggc      420
gaattgggac agcaacttcg taatgatttc gaatctggaa aggagctttt gtgcctgact      480
aaaatcttgt ggagaagaat                                                    500

<210> 172
<211> 500

```



<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<400> 172  
 gccgntgaag ccgcaccagc tccagctgca gcccccgccg ccagcgaacg ccaatcatcc 60  
 aggggatccc gcaaagccgt caagcgcagt ggatctaacg ttttctccat gttctcacia 120  
 aagcaggttag ctgaattcaa agaagccttc caactaattg accacgacaa agatgggtatt 180  
 cattggaaaag aacgatctcc gtgccacttt cgacgaattg ggccgttttg tacaagagaa 240  
 agaactcgac gacatgatcg gtgaggcttc aggaccaatc aacttcaccc aattgttgac 300  
 cttgttcgcc aaccgcatgt ctggatcagg tgggtactgat gatgatgatg ttgtcatcaa 360  
 cgccttcaag accttcgaca acgacggcaa aatcgacagt gacaggttac gtcatgccct 420  
 catgacctgg ggagataaat tctactgcaa gaagttgatg acgcctacga ccaaattggca 480  
 ttgacgataa aggcttcatt 500

<210> 173  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 173  
 gatgccaaaa cagaaccgtg tcgcaatcta cgagcacctc tttaaggagg gagttatggt 60  
 ggccaagaag gactaccatg caccaaaaca ccagaatta gagcaaattc caaacttgca 120  
 agttattaag gctttgcagt cgttgaaatc tagaggatat gttactgaac aatttgcattg 180  
 gaggcatttc tactgggtatc tgacaaatga aggtattgaa tacttgagga catacttgca 240  
 cttgccccca gagatcgtgc cctccactct caaacgtcaa accaggcccg aattggcaag 300  
 gccaagacca gctgccggcc caaggactga aggatctcgt ccagctgaag acagatctgc 360  
 ctaccgtagg gcacctgggtg cacctgggtg cgctgacaag aaggctgatg tcggtgctgg 420  
 cactggagac ttggaattcg tgggtggatat ggacgtggca gacctgccct caataaattt 480  
 atataagtaa ttataataa 500

<210> 174  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(6)  
 <223> n = unknown at positions 4, 5 and 6

<220>  
 <221> misc\_feature  
 <222> (41)..(41)  
 <223> n = unknown at position 41

<220>  
 <221> misc\_feature  
 <222> (61)..(61)  
 <223> n = unknown at position 61

<220>  
 <221> misc\_feature  
 <222> (179)..(179)  
 <223> n = unknown at position 179

<400> 174  
 aggnnncacg cctatgctca aaagaacttg cgcagatctg ntcgtcgcat taaggaactt 60  
 nccttccaag ctgaagaaga ccgcaagaac cacgaacgta tgcaagacct ttagacaaa 120  
 ttacaacaaa agatcaagac ttacaagagg cagatcgaag aagccgaaga aatcgccgnc 180  
 ctcaatcttg ccaaattcgc aaggctcaac aagaattgga agaggctgaa gaacgcgctg 240  
 acttggtgta acaagccgtc agcaaattcc gcgcgaaggg acgtggtgga tccatggcac 300  
 gaggtggcag ccagtgccc gcaagaacag cagctcgccc acaatttgac ggaatggctt 360  
 tcccgttagg ttcgacttga accctgacag cgagttctaa attatttata attaatttta 420  
 aaaaagcgaa cgtggctgct tgacagtaaa cattaatatt ttttaaaaat tattaaaagt 480  
 aaaaaatatc agctcggtca 500

<210> 175  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (489)..(489)  
 <223> n = unknown at position 489

<400> 175  
 gtaaaaacaa aataaaatca ttttagtttg agttagaaca tgtgttatta taagttagcg 60  
 taacacacaa aaattaatca taaatgtctg ataataattg gtagtatact tgtacagtaa 120  
 attctttatt ttccttttcc caatcttttt ctaaaagcga gtgtgggtcat actgctgtgg 180

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taattcgtca ccgagaagcg gatgaagttt atcctccatc attagtgaag gctttgcttg	240
tcagaagaga gaggagtgtt ggttgccggt gtttattgta gttttaattt aattttaaac	300
taagttatgc gtatgaccca agacatggac gatgatgaaa agggaaagct tttcgtcgga	360
gggctatcat gggagactac tcaggagAAC ctgcagaggt tcttctcgag gtacggcgaa	420
gtgatcgatt gcgtcgcatg aagaacagcg agtcggcagg tcgcgcggct tcggcttcgt	480
cacatttgnc gatccctcga	500

<210> 176  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 176	
aagccgtggg agtttcgctg tatgaggaac ctattcagcc tcaacaagct gcttctgtcg	60
tggagaaact tggtgactac ctcataactt ggggctacta aatgtgaaac actggagtgg	120
ccccttatta atttttaaga aaactataat aattataatt acgattaatg aataaattta	180
aacaatgaag accggccagc aaaaagggac agaatttttt tctcatgcct cctgcaatgc	240
agtaaaatat tttgtgccat ttttgtgcct ttgttcccgg tgaccttttt ttcctcagaa	300
gggacacctg gagtgactg gcaaaatcga ggacattagt ttaaacattt gtattataaa	360
accgtgcgga cggcaaaatg aataaaaaat cttactacga ttaaatttgt attaatttcg	420
atgtgaggtt atcgacttgt ggatttaaat atactttctc ctttaataaa actcgtgctt	480
ttgcaattta tgatttgcta	500

<210> 177  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 177	
atcaacttgg attttgtcgg ttaattccga aatcgaaaaa gtttttaagt gcaaaacatt	60
taactgtgac atcagtttgt aatgtatctg ggaaggaaat gagatctgta aatccgattg	120
aaaggtttcc tccttatgac tataagaaga aaggatacgg atttatcaat gcgttttttg	180
attacacaac taagagattc aatgataaca caaaggttat tacagtggaa ggtccaccag	240
ctgttggaac aactgcattt gctaaagctt tggccgaaga tttagatatg aaatactttc	300
cagctgttac tatggatcac tactatatta atgaatatgg gtatgatctc agacaacttg	360
atgataaatt acctgaatca tgtaaaagca tcgattttga taaatttcat aaagatccgc	420
ataatagaaa tgtagcaaca atgcaaattg tgttatatat gaaaaaatat gaacaatatc	480

ttgcggctct tgccatttat 500

<210> 178  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (492)..(492)  
 <223> n = unknown at position 492

<400> 178  
 gtcattcact ttttacgagt tcttttagtgt cctaatttat taataagtat cagaatggtg 60  
 ccgaaaacaa aagtatttgt tggaagcttg ccgccaggct ccaagcctga agaattacgt 120  
 cgtttggtcg aagcttacgg tgttgtaaca gaatgtgata ttatgaatcg ttgtggcttt 180  
 gtacatatgc agaccgaaga gatggctttt agcgcgattc aagcggtgaa taatactaca 240  
 tttaatgggg ccacgataag tgtcgaaagg ggccgcacatc aggaacgcgg atcaggtggt 300  
 ggtcgtggag gcggtggccg cggcggtcga ggatttggag gacgaggagg tggatatgaat 360  
 cgtagtggtg gaggacctgg gggtatgcgt aatgggtggtg gccccatggg aggtggcatg 420  
 cgtcgtggag gcggtggccc aggacccatg cgtggtggtg gccgtgacat gaatcgtgga 480  
 caccctattc tngtgatggt 500

<210> 179  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 179  
 atttgaatcc tcttatcgat tactaatctt ttgtacagtt taatatttat tatcaaggcc 60  
 ttgtacgcca gtgtgtgtaa aggtctcttc agtcgacgac agaggataga agtcagagga 120  
 catttataat acgcagtttt taagtttttt ctggtgaatt tgaatatatt tgaagaaaat 180  
 gaagagggtt ttggttgctt tggcggtttt ggtggtcggt gctgaggcta agctgtcatg 240  
 ttcgagtaca aaagcctcga tccccgaaga atggatcgac atgacagccc agtgcacgag 300  
 gagcatgagg aaccagatcc aagaagaact gagcgcttcg atgcaatact tggccatggg 360  
 ggcgcatttc tcaagagaca ctgtcaacag gccaggattt gctgagatgt tcttcaaate 420  
 ggcaagcgaa gagagggaac atgccatgaa actcatgtct tacttgatga tgagaggaga 480  
 actgccgaga ggctgcagga 500

<210> 180  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 180  
 aagaagatca agaagaagaa ggcaaaagaa gagtctggag atgccccagc cgctgaagcc 60  
 gcaccagctc cagctgcagc ccccgccgcc agcgaacgcc aatcatccag gggatccccgc 120  
 aaagccgtca agcgcagcgg atctaacgtt ttctccatgt tctcacaaaa gcaggtagct 180  
 gaattcaaag aagccttcca gctaattgac caccgacaaag atgggtatcat tggaaagaac 240  
 gatcttctgt ccacttttga cgaattgggc cgttttggtac aagagaaaga actcgacgac 300  
 atgatcgggtg aggcctcagg accaatcaac ttcacccaat tgttgacctt gttcgccaac 360  
 cgcattgtctg gatcaggtgg tactgatgat gatgatgttg tcatcaacgc cttcaagacc 420  
 ttcgacaacg acggcaaaat cgacagtgc aggttacgtc atgccctcat gactggggag 480  
 ataaattcac tgccaagaag 500

<210> 181  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(6)  
 <223> n = unknown at positions 5 and 6

<400> 181  
 acttnnctcc atgcaagcct ctcttgaagc cgaagccaag ggcaaggctg aggctttacg 60  
 catgaagaag aagttggaag ccgacatcaa cgagcttgaa attgctctgg accatgctaa 120  
 caaggctaac gccgaggccc agaagaacat caagcgttac caacaacaac ttaaggatgt 180  
 acaaaccgcc ttgaggaaga acaacgtgca cgtgatgatg cccgtgaaca acttggcatt 240  
 tctgaacgcc gtgccaatgc tctccaaaac gaattggaag aatcccgtac cttattggag 300  
 caagccgaca gaggccgccg ccaagccgaa caagaattgg gagatgctca cgagcaattg 360  
 aacgaacttt ccgcacaaaa cgcttcagta tctgctgcaa gaggaaattg gaatccgaat 420  
 tgcaaacctt gcattctgac ttggacgaac tctcaatgaa gccagactc agaagaaaaa 480  
 gcaagaaggc atgggttgacg 500

<210> 182  
 <211> 500

<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown at position 34

<400> 182  
 agacngctgt ttttgtgttc aaaaagcagt aaantataga aaaaaaaaaac ttattactag 60  
 tgcacattaa caaaaataag cagaacaact attaaaaata tgttttccat gtcaaaccctt 120  
 ttctaaaaaac cattcaatgc atagaaatgt aattttttaa atcaatagta tgatttttta 180  
 aaatatttgg ttttatacca ggagtggact actgaatttc tgcagtgttg ctatggctct 240  
 caatgatcta gggtagaaag ctggttggtat acgaatagac tctggtgatt tagcatatct 300  
 ctgagttctg gccagagaaa catttgagag gatagcagag aaatacaaca ttccttggtt 360  
 tgcaagactc atgataattg catcaaata tatcaatgaa gacacaatac tcagtctcaa 420  
 tgaacaggga caaaaaatag attgttttgg aattgggacg catttagtta catgtcaaag 480  
 gcaccagcac ttgttgtgtc 500

<210> 183  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 183  
 gtgggttcaaa gataatccaa gatgggtaag ggaaataata tgatccctaa tgggcacttc 60  
 cacaagatt ggcaacgttt tgtgaaaact tggtttaacc agcccgcaag gaaaattcga 120  
 agacgtcaaa acaggattaa aaaagctcgt gccttggtcc ctgctcctgc tgctgggccc 180  
 ctgagaccaa ttgtgcattg cccacagtg cgataccaca ctaagggttcg agctggcaga 240  
 ggttttaccc tcgaagaaat caggggagca ggtttgaatg caggatttgc tcgctcgatt 300  
 ggcattgcat tagatgttag acgtcgtaat aaatctgtag aatctttaca acagaatata 360  
 caaagattaa aggaatacag atctaaattg atcttggtcc caagagggtg aaagaaattg 420  
 cataaggggtg aagcaactga agaggaatgc aagggtgcat ctcaattaga aggcgtcgtg 480  
 atgccaatta aacaaacttc 500

<210> 184  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n = unknown at positions 4 and 5

<400> 184  
 aatnmtattc tgaatactat gttagatttt agcgttttcc cggcgagctt gatataatat 60  
 taattgtttg gagtaaaaac aacaaatttt cgaggattaa tttatacaaa aaataattaa 120  
 aatgaaatta gttaggtttc ttatgaaatt atcacacgaa acagtgtcga tagaattgaa 180  
 aatggaact caagtaaag gaacaataac tggcgtggat gttgccatga atacgcattt 240  
 gaaagctgtc aaaatgacta ttaaagatcg agatccagta tttcttgata ctataagttt 300  
 gagagggaat aatattaggt actatattct cccagatagt ttaccattgg agaccctttt 360  
 gatagatgat acacccaaag ccaaagctag aaagaaggaa gcagctcgag gtggaatacg 420  
 aggaaggggt cgtggctgtg gtggcccaga ggcggtcgtg gaggtggtag gggacgtgga 480  
 cgaagataat aatatttttg 500

<210> 185  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<400> 185  
 gaatntgcta ctttacaagc cgctattgaa gcaatcagtt caatgaacat gtttgaccta 60  
 ggaggccaat ttttaagagt gggacgtgct ataacgccgc cgaacgctct tatgggaccg 120  
 acaactggat ctatgatgcc gactgctgct gctgttgccg cagctgccgc cacagctaaa 180  
 attcaagcga tggatgcagt tgctagtaat gctgtcgtt tggggctgcc gagtttgagt 240  
 tcttcaccta caattccgtt atcagtgccg acgatagcgg tgccgcccac cgcaacgata 300  
 acgccatcag ctcccgttgc tatatccggt gctgttaagt taccaggtgt cgtcataccg 360  
 cgcaggtgtc gtcgtacctc aagtcataca gcctccagga attgtgacgc cgacatcgca 420  
 accagttata attccagtat cagtattacc taattgtgaa tcttctccga cgatgatatc 480

aacaagctca cctgcacaca

500

<210> 186  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown at position 34

<400> 186  
 attttttgcc aacacgatca atctcaagct attntcaaca gacacaagga tgtttttagcc 60  
 agatggcagc gtctcctggg agactcccggt gctcgcaaga cccgtttgct ggacatgcaa 120  
 gaacagttca gacagatcga ggaattatat ttgacattcg caaagaaggc atcagctttc 180  
 aattcctggg tcgagaatgc cgaagaagat ctacacagatc ctgtcagggtg caactcgatt 240  
 gaggaaatcc gtgccctgag ggaggctcat gcacagttcc aggcttcttt gtcgtctgca 300  
 caggctgatt ttgaagccct ggcagccctt gatcgccaaa tcaagacgtt caatgttggc 360  
 cgaatcctta cacctgggtc accatggagg ctctcgaaga cacctggagg aacttgcaga 420  
 agataattgc tgaacgtgat actgaacttg ctaaagaagc tcaacgacaa gacgaaaatg 480  
 ataaattgag gaaagagttt 500

<210> 187  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<220>  
 <221> misc\_feature  
 <222> (473)..(473)  
 <223> n = unknown at position 473

<400> 187  
 caggnttcca caacttgtca ttaatatctc ggtctcttca ctgagacggg aaaagaattt 60  
 caaaatgggt tactttttatt gtatatcact tttatgcctg ttactatag ttagctgtaa 120  
 taccggatta gatcctaaag gtccaaaagt tactcatgag gtatactttg acatcagcat 180  
 tgggtggtgaa cctgcaggcc cgtgttttga tcggcctttt cggggggcact gtacccaaaa 240



FC-8-C3.ST25.txt

cagttgaaaa tttcgtagaa ttgtccaaga aacctaagg tgaaggatac aaaggcagta	300
aattccacag ggtcatcaag gacttcatga ttcaaggtgg tgacttcacc aggggagatg	360
gaactggagg ccgtcaattt atggagaacg ttttgctgat gaaaacttta agttgaagca	420
ttatggtgct ggatggttgc catggcaa at gctggcaaag acctatggat ctnaattttt	480
atcctacaaa ccctgctggt	500

<210> 188  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<220>  
 <221> misc\_feature  
 <222> (525)..(525)  
 <223> n = unknown at position 525

<400> 188	
atgtnttcgg gcatttagtg ttttgaagta tcgtggcata aagcagattt aagttaatct	60
gcttcattca atacacaaca tggtagggaa acccaacaag atgtatgttt ttaagcgaga	120
tggccgcaag gaagaaattc attttgataa aatcacttca aggattcaaa agctatgtta	180
cggattgaac atggattttg tagaccctgt ctcaataaca ttaaaagtca taaatggatt	240
atatactgga gttacaactc aagaacttga taatctggcc gcagaaactg ctgctaccat	300
gacaacaaat catgctgatt atgccgttct tgcagcacga atagctgttt caaacttgca	360
caaagaaaca aagaacaat tttcagatgt catggatgat ttgtcaatat gactaatgag	420
tatactaaaa agagatcacc aatgatagca gattatcatc ataaaataat aatggataat	480
gcagatcgca ttaactctgc tattatttat gatagagaat tcagntacaa ttactttggg	540
ttcagacat	549

<210> 189  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (532)..(532)  
 <223> n = unknown at position 532

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<400> 189
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gggcatagtg ctctggtgct ttcagagcac tagccacata tttgcaccat ctgtaaattgc    120
acttattaga agtgtcatat tgcaggagcg atctggaaaa aatacctacg accacgattc     180
cttaacattg caatataaat tagacaatga atttgagctg gtgtttgtgg ttgcctttca     240
gaaaattttg caactgtcat acgttgataa atttttaaat gatgtacatt tagagttag      300
agataagtat aagaatgact tacaaaataa aaggatattt caagaatttg actttggtgc     360
ttgttataac agtattctgc gggcggctga agaatggggt cggactcagg ctaagttacc     420
taaacaaatg cgttcttttg aagattctat gaaatctaaa aagacagttg cttcaatgat     480
tgaaagaaag ggcgagggaa aaaaagaccc cagaagaatg gtaaacaaaa angcaaaaat     540
ggttggttt                                     549

```

```

<210> 190
<211> 387
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (386)..(387)
<223> n = unknown at positions 386 and 387

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<400> 190
gacgttctaa gcacggtcgg ggacatgtga accctgtaag atgcacaaat tgtgctcgat      60
gtgtccctaa agacaaggct atcaagaagt tcgtcattag gaacatcgtc gaagcagctg     120
ctgtacgtga tatcacggag gcttctgttt attccgctta cgtcttacct aagttgtacg     180
ctaagttaca ctactgcgtt tcctgcgcta ttcactctaa ggtagtctgc aatcgctcta     240
aggaagatcg tcgcattagg actccaccag tgagatcatt cccaagagat aatcaaaggc     300
aacaaaatgc tccaagaaag taaatgttca tattttaaat aaaaaaacg acaacttaaa     360
aaaaaaaaaa aaaaaaaaaa aaaaann                                     387

```

```

<210> 191
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (5)..(5)

```

<223> n = unknown at position 5

<400> 191

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acagtttatt tcgcaatcgt tatgttaacg ttttctctta catgtatgaa agttatttag    120
ttataattaa aaatggctct gcaaagcttg aaagggtttt ctaaattggt aaacaaatgt    180
tcgaatcgtg tttcatattt aactgtaaga tgtgcatctc aatattatga catagatgat    240
aacatatttg gattaaatga ggatcagggt cagttgagga agaccatttt cgattttgcc    300
cagaaagaat tagcacctaa agcagctgaa attgataaaa ataatacctt taaagaactg    360
agagagttct ggagaaaatt aggagacttg ggaacattag gaataactgc tccagcagaa    420
tacggtggaa cagaaggcac atatttagat catgttatta ttatggaaga attatcaaga    480
gcttcgggag ctattgccct ctcatatgga gctcattcta atctagcaat aaatcaaatt    540
cgaaggaat                                     549
```

<210> 192

<211> 549

<212> DNA

<213> Ctenocephalides felis

<400> 192

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gcttttaacg ctcttataaa agaaattggt aaatctattg aaatccttat tcatcgggtgc    60
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cagccgcccc tttggctgtg aagaagtctg aacccaaaaa gttgggttaat cctttgttcg    180
agaagaggac aaggaacttt ggaatcgggtc aggatatcca gccaaccaga gacttatcca    240
gatgcgtgag atggcccaaa tacatcagaa tccaacgcca aaagagcggt ttgcagaagc    300
gtttgaaggt ccctccacca atcaaccagt tcacgcagac tttggacaaa caaacagcta    360
cacagttggt caagatttta gaaaagtaca ggccggagac tgctattgct aaaaaggcac    420
gtttgcaagc acgtgctgaa gctaaagccc aagggaagga agacacacct acaaaacgtc    480
caaatgttgt acgttctggc acaaacactg tcacaaaact tgttgaacaa aagaaggcca    540
cttggttggtg                                     549
```

<210> 193

<211> 493

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

&lt;222&gt; (395)..(395)

&lt;223&gt; n = unknown at position 395

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (407)..(407)

&lt;223&gt; n = unknown at position 407

&lt;400&gt; 193

gctaatttaa aaaccatata cgcttttgcg cgagagatgc attccaaaaa tataaataaa 60

cctatacaat atgggtacagc tggatttcgg accaaagcta cagacttgga ctatgtcatg 120

tttcgtatgg gggttcttgc agctcttcgt tcccggtgta aaagcacagc agtaattgga 180

ttaatgataa ctgcatcaca taatcctgaa gaagataatg gtataaaaact cgtagacccc 240

catggtgaga tgcttgaaca aagttgggaa gagtttagcaa ccactttagt taacgttagt 300

gattctgagt tagaggctac agttgaaaaa attgtaaaag acttgaatat cgatcttaat 360

ttgaaggcta atgtgtttat tggatatgat acaangtata gtacgtncgc agtctttgca 420

aagctgctgt tgatggagta ttatctatct cgggggatct cccagagaat tttggtattg 480

gtaccgactc cca 493

&lt;210&gt; 194

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (7)..(7)

&lt;223&gt; n = unknown at position 7

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (36)..(36)

&lt;223&gt; n = unknown at position 36

&lt;400&gt; 194

tttttttnata gtgatgcac ctttatcatt aggagntaat actaattatc caaacaattt 60

gaacaagaat atttattggg ttaatttcaa aaacattttg attttcatat attttattta 120

tttcatttat tggaggaata ttaattctat ttattttatat aacaagaatt tcaaatactg 180

aatatttttc tttaaattatt tataaaaacta tttttattat tttattatta acattaagaa 240

ttattattta ttataataaa aattttctat taatttttaa caataattcc atatttaatg 300

attttaattc aaacttactt atatataatt ttaatctaaa taaattatat aattttccaa 360

ataatttatt aactattata ttaattattt atttattaat ttcattaatt tgtgtagtta 420

aaattacaga tatttttttat ggtccttttac gaaaaaattt ttaaaaaaaaa aaaaaaaaaa 480

aa 482

<210> 195

<211> 549

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (5)..(6)

<223> n = unknown at positions 5 and 6

<400> 195

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gtatttcaat aaatccaaca tatgtctcgg cacacatcat tataattaaa ttattagttt 120

catttccatt aatttatttt actggcgtca atatgacggg atcaaacgac gaattagttg 180

aatcttttaa agcttttaggt ttaagtgaac aaaaggcgaa agaaacgtta aaaaatacag 240

ttgttacgaa aaatttaaca ttagcattac atgagggtgag gggcattatt ttgccccag 300

gagctgggtc tttaatctat tatgtggcaa caaaaatcaa accacagatt atagatcaat 360

tgccctgtact tgtaaaatat atatcaacat caaaattaga cacaacagtt agagttgatg 420

cggccttgca atttatgttg tctcatttaa atggatatca aatcgatgaa ttgagaagg 480

cttgtggaat tgggtgttgt gtacacctga acaaattgaa aaagcagtaa atgaggctat 540

gttggaaca 549

<210> 196

<211> 549

<212> DNA

<213> Ctenocephalides felis

<400> 196

ctttagtata ttcgatata atttctatgt tttatcaa atattgttaa aaatgttata 60

gtgttattgt aaataattag tcattaataa aaaatggcta catatgaaga atttattcaa 120

caaatgaag atcgagacgg gattaggctt acatggaacg tttggccttc tagtaggata 180

gaagccacta gattagtagt cccgctagca tgtctttacc agcctttgaa agagaggcct 240

gatttaccac caattcaata tgatcctgta caatgtacga gaaatacatg ccgagcaatt 300

ttaaatecctt tatgccaagt tgactataga gccaaattat gggtttgcaa cttctgcttt 360

cagaggaatc cgtttctctc acaatatgct gcaatttctg agcagcatca accagcagag 420

ttgattgcaa gtttctctac aatagagtac accatcaciaa gggcaccatg tatgcctcca 480

atattttata tgtcatggga tacatgcatg gatgatgaag aactgggtgc tttaaaagct 540  
ctttacaat 549

<210> 197  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<400> 197  
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tagtaataat acataattta cccagcaacg tgcactgtat aacctacaaa tcacgatttc 180  
gactgaatga aattatggac gctgaagatt tgaatcagtt ctacaacggg cgggagatgg 240  
gtgcttggcc tcccaatggt ggcatccttg ccatcgaact gacgtttccg tcgcaatatg 300  
tcgaccaggc cgaactcgag gcattcgatg gagtgtcagc aggaaaatac acaattggac 360  
tcggccaagc aagaatgggc ttctgtggtg accgagaaga tattaattca ttgtgtttaa 420  
cagttgttaa aaatttgatg gaaagacatc aagtgcctta tgatagaata ggattatttg 480  
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tattcgaac 549

<210> 198  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
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<223> n = unknown at position 6

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atgcatttcg agccgtaatt attattcgta tgtaaatgag cctgccaac aaatcaaaga 180  
caaagaaccg aaatgggtta ctgccgaaga agccgtaaaa attattaaat cagatgactg 240  
ggtgtacgct caggggtgcg ctgctacccc aatcaactta ttaggtgcga tgactgcaca 300  
tggaagaag caaggcctga agaattgtgcg cgtctgccac atgcacactg aaggacctgc 360  
attatacgct cagcctgatt gcgaagggat atttagatct gtatcattct tcatgggagg 420

FC-8-C3.ST25.txt

caacgtacgt gcagctgtga atgaaggacg aggcgatgca attccaatct tcctatcaga	480
aatacctctt ctattccaaa agaaaattat tcaacctgat gtagccatag ttcatgtttc	540
tcctccaga	549

<210> 199  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 199	
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ttccaaactt gcaagttatt aaggctttgc agtcgttgaa atctagagga tatgttactg	180
aacaatttgc atggaggcat ttctactggg atctgacaaa tgaagggtatt gaatacttga	240
ggacatactt gcacttgccc ccagagatcg tgcctccac tctcaaactt caaaccaggc	300
ccgaattggc aaggccaaga ccagctgccg gcccaaggac tgaaggatct cgtccagctg	360
aagacagatc tgctaccgta gggcacctgg tgcacctggg ggcgctgaca agaaggctga	420
tgctcgtgct ggcactggag acttgggaatt ccgtgggtga tatggacgtg gcagacctgc	480
cctcaataaa tttatataaa gtaatttata ataaaatc aataaaacat cttattgata	540
aacc	544

<210> 200  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (4)..(4)  
 <223> n = unknown at position 4

<220>  
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 <222> (6)..(6)  
 <223> n = unknown at position 6

<400> 200	
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caattccatg caacactaag tccaaccatt ccgttggttt gatgtggtgg ctgttgcca	120
gagaagtctt gagacttcgt ggatcaattc cccgtgagaa gacttgggat gtcgtagttg	180
atttgttctt ctaccgtgat ccagaggaag tagagaaaga ggatcttggt cacaaggaag	240

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ttgtggccaa agttgagact gctggtgctc atgatactgc tgaagtatgg gcaggagatg	300
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ctgctgctgc cagccaagat tgggcccagc aagtgcaaga agaatgggct gccaacccta	420
ccccagctgc tgggtcaaact acttggggaa gctccacaca agaatgggtca taaatcaa	480
gatacttttt gtattggata aatgaaataa atgaaaatta aaattaaaaa aaaaaaaaaa	540
aaaaaaaaa	549

<210> 201  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown at position 4

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n = unknown at position 6

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ctgttcgaga aatacgggac ggtcgtcgaa tgcgatgttg tcaagaactt tggttttgtt	180
catatggaga ccgaacagca aggtcgggat gcaattcaga acctaaacgg ctacgtaata	240
aacggcgagg ccataaaatg cgaagccgcc aagagccgga gggcgccgct aacccccgacg	300
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ttggacgcga gcggtgacgt gaacgaggcg attcgggagc tgaacggaat gatggtcgac	480
gggcaacc	
cca tgaaagtga agtgtccacg agtcgcgtgc gccagaagcc gggcattggg	540
tgatcccga	549

<210> 202  
 <211> 549  
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 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature



&lt;222&gt; (5)..(5)

&lt;223&gt; n = unknown at position 5

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (174)..(174)

&lt;223&gt; n = unknown at position 174

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (502)..(502)

&lt;223&gt; n = unknown at position 502

&lt;400&gt; 202

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cgagatgaac ttttggccaa gatgagtgac actgaagaca aatataatag acaagttgct 120

gctctaacca atttgcaatg tgccttagaa caattccaaa gagataaaga tcangaaatc 180

caccaatgca cagaaaggat aagaaaccaa ttggaattgg aacgacagga acaaactgct 240

ttaaggaacg aaatccaatc cctaaaaacg caacttagtg aacaacaaca aggcctgatg 300

gctgcaggaa gacttgccag tcaacttgaa tcctcacaaa caactgtaca aaatctcaga 360

caagaattga aagagagcca agacaaatac gctgctctga ccgccaaagt ggagtcttca 420

aaaaacaacc aagccgacaa aatcgagaag agcttgtaaa aacctaatac tcggtacatc 480

cagctgggtca acaaaacgac angcacaaat ctaaaatata tagcagtctc gacttcacca 540

gtcggatgc 549

&lt;210&gt; 203

&lt;211&gt; 1098

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (511)..(511)

&lt;223&gt; n = unknown at position 511

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1060)..(1060)

&lt;223&gt; n = unknown at position 1060

&lt;400&gt; 203

tgtttatatt cttcaaaat gtccgtacgt gtgcaattcg aaaacaacaa tgaaatcggc 60

gttttttagca aactaacaaa cgcttattgt ctctagcgga tcggcgatc tgaaaacttt 120

tatagtgtct tcgaggctga attggcagag actattccgg ttgtccatgc tagcattgca 180

gggtgtagga tcattggcag gttgactgtg gggaataaaa atgggtttatt ggtgccagct 240

FC-8-C3.ST25.txt

tcgacaactg acacagagtt gcaacatata aggaattctt taccagaaag tgtaaaaaata	300
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gccctagtag atccagatct tgataaggaa actgaagaaa tcctaacaga tgtctaaatg	420
ttgaagtatt ccgcaaacag ttgcagtaat gtcctagtag gctcatacac agttttaagt	480
aaccaagggg gcttagtgcc cccaaaacat ncatacaaga caagacgagc ttcgtcatal	540
tcaagtcctg gtttatattc cttcaaaatg tccgtacgtg tgcaattcga aaacaacaat	600
gaaatcgggtg tttttagcaa actaacaac gcttattgtc tcgtagcgat cggcggatct	660
gaaaactttt atagtgtctt cgaggctgaa ttggcagaga ctattccggt tgtccatgct	720
agcattgcag ggtgtaggat cattggcagg ttgactgtgg ggaataaaaa tggtttattg	780
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gattatgtag ccctagtaca tccagatctt gataaggaaa ctgaagaaat cctaacagat	960
gtctaaatgt tgaagtattc cgcaaacagt tgcagtaatg tcctagtagg ctcatcac	1020
gttttaagta accaaggggg cttagtggcc ccaaaacatn catacaagac aagacgagct	1080
tcgtcatalc caagtccg	1098

<210> 204  
 <211> 545  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n = unknown at positions 4 and 5

<400> 204	
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aacttttgctt ggagaaatgc ctgcaacagg tgtagtgaag aaagacctga tgggtgcaggc	120
ggcgggtgact ccggccgagg tgggtggcgt ggaggcggcc gcggcgggtg tgggtggagg	180
ggtagttacg gtaaccgcgg aggtggtgat agagattctg gtcgcgggtg tgatagaggt	240
tttcgaggag gtgggtggccg cgggtggcgt ggcggttatg gaggtggccg cggaggcgg	300
ggtgatcgta attctggagg aggtggctca atgcgtggag gagatagagg acgagatagg	360
caacgacctt attaaataat tagcttgtaa ttttattcac cctcattttc acatcattcg	420
tactcatatt agattttattg attttttagaa ttattttatat gatttgtatg attcaatgta	480

acacaatatt gtaaatctta tattaagatt taataatata aaataataga aaaaaaaaaa 540  
 aaaaaa 545

<210> 205  
 <211> 532  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (3)..(4)  
 <223> n = unknown at positions 3 and 4

<400> 205  
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 tggaaacgaa tcaagttctg aggaagagga agtagccaaa aaagctgcag gtgataagaa 180  
 gaaagcccca gggctggaaa gctctgattc agagagtga tccggagactg aatcttcaga 240  
 agatgagaag gataagaaga aaggtgtatc tggattgata gaagtggaaa atcctaattcg 300  
 tgttcaaaaa aaaaccaaga aactttctac tttaaatgaa acattaactg atagcaaacc 360  
 acaattgtca agacgagaaa gagaagaagt tgagaagcag agagcgcaag cacattacca 420  
 aaagcttcat gcagaagcaa aactgtcaag caagatctgt ttagcaagac ttgcatcatt 480  
 aaacacagcg tgaagaacag cttaaagacc gagttggaaa aaaaaaaaaa aa 532

<210> 206  
 <211> 454  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<400> 206  
 atttntgttg gttaactcga gcagtaagaa tatataaaaa tggctgcagt tggcaaagat 60  
 ttagaaaaac caacagctga ggtgcctcag gtccatcgca tccgtataac tttaacttca 120  
 agaaatgtac gttcattgga gaaagtatgt accgatttaa taaatggagc caagaaacaa 180  
 aagctccgtg tgaagggacc agttcgcatt ccaacaaaaa tcttgcgat taccacacgt 240  
 aaaacacctt gtggtgaagg ttcaaaaact tgggatcgct tccaaatgag aatccacaaa 300

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agagtcacgc atctgcactc tccatctgaa attgtgaagc aaatcacttc catcagtatt	360
gagccaggtg tagaggttga agtaacaatc gctgatgctt aaattttgta aattgatgga	420
aataaatgac aaacctaata aaaaaaaaaa aaaa	454

<210> 207  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (470)..(470)  
 <223> n = unknown at position 470

<400> 207	
cacttttgagg ttttgatcct taaccatggt gaacggagcg atcccgtccg tcttttcgaa	60
gacatatgta acccctcgtc gtccttatga aaaggctcgt ttggaccaag aattgaaaat	120
cattggagaa tatggtctcc gtaacaagag ggaagtatgg cgtgtcaa atacactttggc	180
taaaatccgt aaagctgccc gtgagttgct cacattggac gaaaaggatg gcaaactgtct	240
cttcgaagggt aatgctttat tgcgtcgttt agtacgtatt ggagtgttgg atgaatccag	300
aatgaagctc gattacgtgt tgggtttgaa aatagaagat ttcttggaa gtcgtctgca	360
aaccaagtt ttcaaactgg gattagccaa atcattcacc acgctcgtgt tttgatccgc	420
agagacacat tcgtgttcgc aagcaagttg taatattccc tcttcattgn gcgttggatt	480
acaaaaacac attgacttct ccctcaaatc gccttcggtg gtggctcgta ggacgttaaa	540
gaggaagac	549

<210> 208  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 208	
cggtaataag gtttgtgatc aacgaatcaa tgacgtgct caatttaagg ctgtacgagc	60
agccatgtca gtcacgaaa tttctgaaga agaacaata caaatccttc gtgtcgtcgc	120
agcagttttg catttaggca atgttggatt tactgaaagc gaaggaaaag cagaaatttt	180
gaaacctgaa gctgtgcaat acgccagcga gttattggga tgttcattgtg aagctttatc	240
caaagcactt acacatcgaa ctatcgaa accagccgaggg ttggcaaagg tcagttctcc	300
tttatcgcgaa gaaatggcaa ttcattgcaag agatgcttta gcaaaggctg tttatgatag	360
aatgttcact tggcttgtgt ccaggctgaa cgcttctttg caaccggtca aaaccaggag	420

FC-8-C3.ST25.txt

```
ctattcggta tgggaatatt ggacatttac ggatttgaga tttccagaaa aatagttttg 480
aacaatttga taaacttttg caatgaaaaa cttcacactc ttatcgagct gcttgaaata 540
gacaagaca 549
```

```
<210> 209
<211> 549
<212> DNA
<213> Ctenocephalides felis
```

```
<220>
<221> misc_feature
<222> (34)..(34)
<223> n = unknown at position 34
```

```
<220>
<221> misc_feature
<222> (525)..(525)
<223> n = unknown at position 525
```

```
<400> 209
attttaataa catgacaaaa aattaaccct atantttggt taagttattg tattaatata 60
aattattttt atttaatttc attattaaga attataattg gagctttagg tggattaaat 120
aattcctctt tacaaaaaat tattacttat ttttcaatta cacatattgg ctgaataatt 180
attgctttta taaataatga aataaatttt tgattttatt tttttattta ctttatcatt 240
tctttaatta ttacaataaa ttttaatttt ttaaaattat tttatataaa tcaaataatta 300
tctaattcaa taaattatat aacaaaaatt actttaataa taatattttt atcaatagga 360
ggtttacctc catttttagg attttttcct aaatgaatta ttattgaatc tataattaat 420
ataaatataa ttttttattc tattattata attttatgta ctttattaat attatatatt 480
attacgattt gcttttctat ttaatatata taattccaaa ttctngaaaa ttatatataa 540
taaattttc 549
```

```
<210> 210
<211> 549
<212> DNA
<213> Ctenocephalides felis
```

```
<220>
<221> misc_feature
<222> (4)..(4)
<223> n = unknown at position 4
```

```
<220>
<221> misc_feature
```

$\langle 222 \rangle \quad (543) \dots (543)$ 

<223> n = unknown at position 543

$\langle 400 \rangle$     210

cttntaaaaa	ttattaataa	ttccttaatt	gatcttcctt	ctccatcaa	tatttcatta	60
ttatgaaatt	ttggttcttt	attaggacta	tgtttaatta	ttcaattaat	tacaggatta	120
tttttagcaa	tgcattactg	tgctaataat	gatatcgcat	tttcatcagt	tagacatatt	180
tgtcgaaatg	taaaattatg	gttgattaat	tcgtagcatt	catgcaaatt	gggcatcatt	240
tttctttatt	tgtattttaca	ttcatattgg	acgaggaatt	tattattcta	gttacaaaatt	300
acatgaaact	tgattttattg	ggttattaat	tttattttta	gtaataggaa	ctgcttttat	360
aggatatgta	ttaccttgag	gacaaatatc	atthttgagga	gcaactgtta	ttacaaaactt	420
aattttctgct	attccatata	ttggaaattc	aattgtcaat	gattatgagg	aggatttgca	480
gtgataatgc	tctttaactc	gattcttttat	gatcattttt	attccattta	ttatttctggt	540
tgnaataat						549

$\langle 210 \rangle$     211

<211> 549

<212> DNA

<213> Ctenocephalides felis

 $\langle 220 \rangle$ 

```
<221> misc_feature
```

<222> (4) . . (5)

<223> n = unknown at positions 4 and 5

 $\langle 220 \rangle$ 

```
<221> misc_feature
```

$$\langle 222 \rangle \quad (34) \dots (34)$$

<223> n = unknown at position 34

<400> 211

gacnntataa	caaaccgaga	ttatTTTTga	aatnaaaggt	attaggaaaa	attattgata	60
ataacataaa	agtctaaatg	cttttataat	atgacagcaa	tgcgtactgc	aatgaatgtt	120
gtgtatacag	ttttgtggat	tctattaatt	tcacaaggta	cccaaagcgt	tgaattaact	180
tttgaactac	cggataatgc	aaaagaatgc	ttttaccaag	atattcaaaa	aaatacaagc	240
gtcaccttag	agtttcaggt	cgtcacgggc	ggtcagtatg	atgttgatgt	aacattagaa	300
agcccaaata	agcaaattat	atatagtcaa	gtgaaaaccc	aatttgattc	gcatcatttc	360
actgcaccga	taagtgggtg	ttacgttgct	tgtttcagta	atgaattttc	cacgttctca	420
cacaaattgg	ttatatggac	tttcaagttg	gtgatgaaca	gctttacccg	gtgtcgggga	480
gcatgctaca	gtcttaccba	acttgaatct	ttgccaaagag	attcatcgaa	gtttgccagt	540

ttctcaatt

549

<210> 212  
 <211> 439  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<400> 212  
 aaatncgtta cgtggctgcg tatTTgttgg ctgTTTTggg aggcaaagcc gccccgacct 60  
 ccggagacat cgagaaaatc ctgagctctg ttggtattga agccgatgct gaacgtttaa 120  
 agaaagtcac aagtgagctc aatggcaaga gcatcgatga actcattgaa caaggtcggg 180  
 agaagctttc ctccatgccg gtaggtggtg gtggtgcacc agctgcagct gctgctggcg 240  
 gcgccccctgc ggctgctgaa gaaaagaaag aagagaaaaa agaggccaaa aaggaagaat 300  
 cagagtctga ggacgatatg ggtttcggtc tctttgacta aggaatacgt atgccttacg 360  
 tataatgaaa ttataaattt aaatgtaaca tatgcataag aaataaagtg atttcattta 420  
 taataaaaaa aaaaaaaa 439

<210> 213  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 213  
 gtttaagtgt attcaaatca aataattcca taaaactatt ctagaaaata atccaacaca 60  
 gttagataag atgaagtctt tgggtgctctt ggccgTTTTg gctgtagggt ttgcaaatgc 120  
 tgaatattgt tacgatgaaa gtgttactgc ttgttcatcg actgccata aggaggatct 180  
 ccctcattgt aatgccctct actccggttt ccacactgtg gctgccgact tatcatcata 240  
 cgttaaaaga gaagtcctat actcctacga ctacttgctg atgtctacac actttggaaa 300  
 ctatgaaaag aatcgtgttg gtttcgaaaa actcttcaaa ggcctctccg acaagtcttg 360  
 ggaaaacgca atcaatgtca tcaaatacat caccaaacgt gggggcactg tcgacttcca 420  
 gactactcac aatgtcaaca ctactcgtgt agctgaaaca tcagaattgg aagttgccag 480  
 ggctttggag aatgagaaag tgctcgtaag gatgtcaggc tattcacaaa cgtgtatcaa 540  
 ctccgacac 549

<210> 214  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 214  
 attttagaat ataaagcttt aattatatatt ttaattttat atttttgttt taattatata 60  
 atatttgaga attatatttg taatttttat attgtattta cagtatgtga aggggtttta 120  
 ggcctttcta ttttagttgc aataattcgt actcatggta atgattatatt taaaagattt 180  
 aatataatac aatgttaaaa tttttaataa taatattttt tataatccct attatatttat 240  
 taaaaaattg ttattgattg gttcaaaca tattatttat aatattattt atttatataa 300  
 ttttaggaat aaaaagaatt ataattgtta atattagatt aaattttggt tatgatatta 360  
 tatcttatag attgaattta ttaaggattt gaattattat tttaatatta atagcatcaa 420  
 ttttaattta taaaaataat tataattaaa ttatttttat tattattaat tttttattat 480  
 taatattatt tttaactttt agtcattaaa ttattttgat ttattttttt ttgaagaaga 540  
 taattccgcc 550

<210> 215  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 215  
 ctattcggaa aacttttcct gccgtagggc ccaaacctcc gctaatttct agtgagtgac 60  
 taaatttaat gtcgtggtta gtggtgcaac aatgcagatt ttcgtcaaaa ccctcacggg 120  
 taaaaccata accctagagg ttgaagcttc tgataccatc gaaaatgtta aagctaagat 180  
 tcaagataaa gaaggaattc ctccagatca gcaaagggtta atctttgcag gtaaacaatt 240  
 agaggatggc agaacattgt cagactataa cattcaaaaa gaatccacct tgcatttggt 300  
 gctccgcctt cgtgggtggtg ccaagaaacg caagaagaag aattattcaa caccaaaaaa 360  
 aatcaaacat aagaagaaga aggttaaaact agctatttta aaatgttaca aggttgatga 420  
 aaatggtaaa atatttcgca tgaggcgtga atgccccgga gaggctgtgg agcaggagta 480  
 tttatggctg tatgacagat aggcattctg tggaagggtg atcacttatt tcagcaaacc 540  
 agaagatatt 550

<210> 216  
 <211> 479  
 <212> DNA  
 <213> Ctenocephalides felis



```

<400> 216
tagcacctca aaacctgctt cggctaagag ctcaacaact aaaccagctg ctgccaaacc      60
tgcagctaag cctgctgcta aaccagcagc tggtaagcca aaagctccag caaaatcttt      120
gtctaagcca acaagtgctc ctaagaaagt tactaaagtt gcggctaagc ccaaagttgc      180
tgccaaacca aaacgcaatg tttctgttaa aggacagaaa ggagccaagc ctgcagctaa      240
agcagcagtc aagaaagctt taagtgtgca aaagaaggta attaaagggtg taaatggcac      300
acgcacaagg aaaatccgta cctctgtaca ctttaggagg cccaagaccc tcaggccacc      360
aagaaatccc aaatccccag gaagagtgtg ccattctagaa ctgcgatggt gcttacaata      420
ttatcaaatt ccattgccac tgagcagcat gaaaaaaatt gagatccaat acttagtgt      479

```

```

<210> 217
<211> 420
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (386)..(386)
<223> n = unknown at position 386

```

```

<220>
<221> misc_feature
<222> (404)..(404)
<223> n = unknown at position 404

```

```

<400> 217
cacaaatagg gattaaaaaa tggctccaag aaaaaacaaa gtagcaaaag aagaagtgca      60
ggtggctttg ggacctcaag ttcgtgaagg tgaaattggt tttggagtcg ctcacatttt      120
tgccagcttc aatgatactt tcgttcatgt caccgatttg tctggacgtg aaactattgc      180
cagggtcact ggaggcatga aagtaaaggc tgatcgtgat gaagcctctc cttatgctgc      240
tatgttggcc gctcaggatg tggctgagaa atgcaagtcc ctcggcacat cagccctgca      300
catcaagctc cgtgccaccg gtggaaacaa aaccaagacc ccaggaccag gtgctcaatc      360
cgctttgaga gctttggccg ttcttngatg aaaaatggac gcantgaaga tgtgacaccc      420

```

```

<210> 218
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (502)..(502)

&lt;223&gt; n = unknown at position 502

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (541)..(541)

&lt;223&gt; n = unknown at position 541

&lt;400&gt; 218

gcagagtagg caaagtgtga ctggcacttg tcagcgtttg tcgttcccga gtgctagatt 60

agggtatttta ggattgttgg ccgatattcc atcatctggg taggctaaaa tcaaggatcg 120

gaaagacgat cgagacgaac aaccatacaa aaatattttt tagaacaaaa tcaataaaaa 180

tttcaaaatg ttatctcgga ttctaaaacc tcttttaaata ggatctacta gagcgttttc 240

gactacaaac aagaataatg tcaaggttgc ggttttggga gccgctggtg gaattgggca 300

accoccttagt cttttattga aacagtcgcc tttgatcagt cgcttgaatt tgtatgatat 360

ccttggaacg attggtgtgg cagctgactt aagtcacatt gaaacacctg ccaaagtatg 420

tggttacaat ggcaagaagt tttgtgcaag gcttagaagg agtggatgta gtcgcatcca 480

gcagcagccc tcgtaaacct gnatgactcg tgatgattgg ttgcatcatg cttcattgtg 540

ntgaataat 549

&lt;210&gt; 219

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (444)..(444)

&lt;223&gt; n = unknown at position 444

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (452)..(452)

&lt;223&gt; n = unknown at position 452

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (521)..(521)

&lt;223&gt; n = unknown at position 521

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (542)..(542)

&lt;223&gt; n = unknown at position 542

&lt;400&gt; 219

gcgacctgta cgcgcggtga caactattct gtgttcaatc gaaagttaac gcgcgtttaa 60

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caaaagtttt taaaaaatc caataaggat aactataaaa taacgttttc agtgattcag	120
ttataaatat tcgtttgtgc atttcatatc attatggcta acaacagagc tgcaaaatcc	180
ggtttcgccg ctgaggcaca aagaaagata aatagcaaat acagcgatga acttgcacaa	240
gaatgcttgg aatgggtcaa aaccattact ggagagcccg aaaatgtag cggcgatatg	300
gacaattttt acgaagtatt gaaggacggc aactgttgt gcaaattagt gaactctcta	360
caagctgggt ctgtaaagaa agtcaatgag agcaaatgg cttttaaatg catggagaat	420
ataaatgctt tcttggaagc ggcnaagcta tnggcgttcc tgcgcaagaa actttcaaac	480
ggtgatctgt ggaaagacaa aatcttaatt ctgtgcattt nctcaatcat tagggcgaaa	540
gntggaata	549

<210> 220  
 <211> 301  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown at position 32

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
 <223> n = unknown at position 68

<220>  
 <221> misc\_feature  
 <222> (70)..(70)  
 <223> n = unknown at position 70

<220>  
 <221> misc\_feature  
 <222> (84)..(84)  
 <223> n = unknown at position 84

<220>  
 <221> misc\_feature  
 <222> (88)..(88)  
 <223> n = unknown at position 88

<220>  
 <221> misc\_feature  
 <222> (226)..(226)  
 <223> n = unknown at position 226

<220>  
 <221> misc\_feature  
 <222> (277)..(277)  
 <223> n = unknown at position 277

```

<400> 220
ctcattttatt atttatttat ttatatagtg tntgtgagga ttatttgata tcaatcaata      60
gttattgntn ggagaaatgg cgtnacacnac gaaaacttcg aagtattctt acagatcgac      120
cggcgaggga aacgctgatg tcagcatcga gtacagtgtg gatctcagtg ccctcaccag      180
attggaggat aaaattcgtc ttttacacga tgacctcgaa tccganaggg aactccgtgc      240
caggatcgag cgcgagaagg cagatttgag tgtacangtc attcaactgt cagaaagggt      300
a                                                                              301

```

```

<210> 221
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (374)..(374)
<223> n = unknown at position 374

```

```

<220>
<221> misc_feature
<222> (402)..(402)
<223> n = unknown at position 402

```

```

<220>
<221> misc_feature
<222> (417)..(417)
<223> n = unknown at position 417

```

```

<220>
<221> misc_feature
<222> (440)..(440)
<223> n = unknown at position 440

```

```

<220>
<221> misc_feature
<222> (443)..(443)
<223> n = unknown at position 443

```

```

<220>
<221> misc_feature
<222> (445)..(445)
<223> n = unknown at position 445

```

```

<220>
<221> misc_feature
<222> (532)..(532)
<223> n = unknown at position 532

```

```

<400> 221
attttcactg gatacaaacg aggtctcagg aatcagcatg aaaacacagc tctcttgaag      60

```

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gttgaagggtt gtggtaccaa agccgatagc tgggtctatg ttggtaaacg atgtgtat	120
gtgtacaaag ctaagaacaa gacctgcgta cccggcaaac caaagaagg taaatcaaaa	180
agtacgcgct atttggggca aagtaacacg gccacatgga tgctctggtt gtgttcgtgc	240
taagttccac agaaaccttc cagcaaaagc aatgggtcat cgtgttcgta taatgctgtt	300
cccatccaga atataaggca taggattcat cttttgttat aaattataaa ataaacccta	360
taaaaaaaaat taanaaaaaa aaaaaaaaaa aaaaaaaacc tngggggggg gcccgnccc	420
aattcgccct atagggagtn gtntncaatt cactgccgtc gttttacacg tcgtgactgg	480
gaaaccctgc gttcccaact taatcgctt gagacatccc tttcccagct gngtaataac	540
aaaaggccc	549

<210> 222  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 222	
gcataccgac acctccat	60
cggtatgaa aacaaatgac attgtactca aagcacaagt tttggctggt ggtagaggga	120
aaggccaatt caaatcgggc ttgaaaggcg gcggttcgaat gggtacaacg ccagagcaag	180
cagaaaaaat atcttcaaaa atgatcaacc aaatattagt aactaagcaa acaggtgaaa	240
agggtcggat atgtaattct gtcattggtca cagaaagaaa gtttccccga cgagaataact	300
atttggccgt tatgatggag cgagcttttt ctggccctgt aattattgct tcatcacaag	360
gaggagttaa tatcgaagaa gtagccgctg aagatccaga agcaataatt tatgaaccaa	420
ttgcataatg aagggaatta cacatgaaca gacaaaaaaa ttgttggtgaa ttgacttgaa	480
gatcatgcag aattaccgca gaatttagag aaatgtatga ttggttttta agaaagatcc	540
tctattgaa	549

<210> 223  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 223	
gcgctattga gtcgcacgaa taatttaaca aattatatat ttaagtggaa attagataaa	60
ttaataggac aaacgtagc agtaatttca tgctcttact ccacaaaagg atcaaaagt	120
tatgaagatg cttcagaagc tggttaaagat ataccaaag gagcaaaatt actagttggt	180
ggttttgggt tatgtggaat tccagagaat ttaatcgctg ctgtattaaa acatgggtgt	240

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tctggattaa ctgttgtttc caacaatgcg ggtgttgata cgtttggtct gggattactg	300
ttaaaagaaa aaaggatcaa acgcatgatt gcttcatacg tgggtgaaaa tgctgaattt	360
gaaagacaat atttaagtgg tgaacttgaa gtagaattga ctctcaagg aacattagca	420
gaaagaatcc gagcaggagg agctgggtatt cctgtttttt cacaccaacc gttatggacc	480
cttgtcatga aggagggcgt ccattaaata tggaaagaaa ggagaggtag aaattagagt	540
cacctagct	549

<210> 224  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (538)..(538)  
 <223> n = unknown at position 538

<220>  
 <221> misc\_feature  
 <222> (543)..(543)  
 <223> n = unknown at position 543

<400> 224 aaagtctttt atcaatagtc ttttataaag cacttttctac caggatacaa tttaaattac	60
attctataaaa taaaaaagct tactattaaa atgaacataa ataccagaat gccataagtg	120
tctttttctct cttatataca taataacatt tcaataaata tttgtataaa aataatatct	180
gaaatatgta cataactaaa ttaataggca aatctcattt caggattata tcctaattta	240
tccagactag gctggcatgc aaatttgatc attggtggag gaccacacat aagcactaga	300
gtatcatcgg aaggaggaaa caaatgttct gcaatcatgt ctgagtttat aaaaccagtg	360
ctatatattcc aattgtctgg tgggctatca agagtatacc ataatttaaa ttgagttgga	420
tcatttttag caattttcttc caatctatca cgctaatat atccttttca gtctggttgc	480
aatatcaaag cgattcagtt gatctgggggt ttacaattc ctcactaact gagcatgngt	540
aantctgac	549

<210> 225  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 225 gccattttca gtttgaagtg tcagtgatat aataataatc ctaaagtgca atgacatttt	60
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FC-8-C3.ST25.txt

tttatataag agatgtttct tacaaagtta aatttcaagt tattctctcc caataacttt	120
accttagcga taataaaaaa atattcgtgt ttaacgtgcc aaagtctaac cctactttcc	180
tctagcttta caaagcaaga tgaatatagt ttattaccaa ttagaaatta ttcacaaaat	240
actaaaaacg aattagctca ttgcaacatt ggcactatag gtcattgtaga tcatggcaaa	300
acaacattga cagcagcaat aacaaaaatt ttatcaaaaa atgggttctgc aaaatacata	360
tcttatgatg aaattgatcg agctcctgag gaaaaagcca gagggattcc atcaatgcag	420
ctcatgttgg gtatagcact actaagagac attatgctca tacagactgc cagggtcatgc	480
cgatttgtaa aaacatgata tcagggctta caaatgggtg accatttaga gtggtgcaac	540
agaaggcaa	549

<210> 226  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 226	
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ttggaacagt taacagggtca acagcctgtt ttctcaaaag ctcggttatac cgtcagatct	180
ttcggtatcc gtcgtaatga aaaaattgct gtccattgta cagtccgtgg agctaaggcc	240
gaagaaattt tggaacgagg tcttaaagta cgagaatatg agttgaggcg agacaacttc	300
tctggaactg gaaactttgg tttcgggtatt caagaacaca tcgatcttgg aattaaatac	360
gatccatcca ttggtattta tgggttggac ttctacgttg tactcggacg accaggtttc	420
aatgttgcca cagaagcgca agactggcaa agtggtttcc aaccggttgc gaaagaagat	480
gctatgaaat ggtccaacag aaatatgatg gtatatttta tagtaaaagt gagaagacat	540
tttctgtat	549

<210> 227  
 <211> 365  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 227	
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ttcaaagtac gccccgctcg cgtaaaggga atccaaacaa aacataccaa atttgtccgt	120
gatttggtta gagaagtcgt tggacatgcc ccttacgaga aaagagctat ggaattgtta	180

FC-8-C3.ST25.txt

aagggtttcaa aggataagag ggccctcaaa tttttgaaaa gacgcttggg aacacatatc 240  
 agagctaaga ggaagcgtga agaactttct aacatcttaa cccaaatgcg taaagcacat 300  
 gctgctgcta cacatactaa gtagatatga ataaagctgt ttaattgtaa aaaaaaaaaa 360  
 aaaaa. 365

<210> 228  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 228  
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 ctgtgtcatc gagacagggtc actgtcaagg ggcccagggg agtattaaaa cgctccttca 120  
 aacatttagc agttgatatt cgtatgggtca atcctagatt attgaaagtt gagaaatggg 180  
 ttggatcaaa aaaagctatt gctgcagtta ggactgtttg ctctcacatc gaaaacatgt 240  
 tgaaagggtgt aactaaagggt tatcaatata aaatgcgtgc cgtatatgct cactttccca 300  
 ttaattgtgt gaccacggaa aacaacacag ttatcgaaat ccgtaatttc ttgggagaga 360  
 aatacatcag acgggtaaag atggcccctg gtgttacagt gatgaactcc cccaaacaaa 420  
 aggacgagct gatcttggaa ggaaactctt ggaagatgta tctaaatcag ctgcattaat 480  
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 actcagtg 549

<210> 229  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (548)..(548)  
 <223> n = unknown at position 548

<400> 229  
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 acactattaa ctgcaaaacg caagttgacg aatatttttt aatttaaact tataaatagc 120  
 atccactgaa atcattttga ataaatatatt cacgatgtct atcaacgact gtgaagagaa 180  
 acgagaaatc atcgaaagga agttggaaat tccggatttc gcgttgaagc atccccttca 240  
 gcacacatgg actttgtggt attttgaaaa cgaccggcaa aagacatggg aagaaaatca 300  
 acgagaaata gtcagttttg ctacaattga agacttctgg agtggtttata gccatataaa 360



gatggctagc gaattgcgtc aaggatgcga ttattccttg ttcaaaagcg gcatcaggcc 420  
aatgtgggaa gatgacgcca ataagcatgg aggaagtggg ccatcaccat ggcaaaaagc 480  
agcgacaaat gatttggata gaattggtgg caccctctct gttaatcgtg aacttttgaa 540  
attccacna 549

<210> 230  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<400> 230  
cgctgaaatc atctcgcgat aacgttttga atgtgtttta tatgaaaaca gtggctatatt 60  
atttactcga tatgtgtcca cagtaaagta tttgtgattt attcaagtgt tgtgtgctga 120  
tttagtttgt tcaatagaac ctaaaaaaga acaaggtttg tgggtgttgt gcttacaacg 180  
ttttaggatt ttgaattcgt gactctacgt ggataacgct agacttccag gcatagcaca 240  
atgccggaag agaccaaagt ggaggcggat gcacctcata gtcttgccaa gcaaaaacgg 300  
tcatcagggtg gaagaactgt tttggctaaa gtcgacctac tagatggatc agttcttgat 360  
ctccatattg aacgtaaagt gaaagcaaag gagctcctgg ataaaatatg tgaagcttta 420  
aatatttttg aaaaagattt ctttggctta tctcagtcac catctgatcc agagtctggc 480  
tggatccaga aagacagtgc taagttctta aatctgacca tgggtgtgca tcgagtaaata 540  
ctccccag 549

<210> 231  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (33)..(33)  
<223> n = unknown at position 33

<220>  
<221> misc\_feature  
<222> (189)..(189)  
<223> n = unknown at position 189

<220>  
<221> misc\_feature  
<222> (451)..(451)  
<223> n = unknown at position 451

<220>

<221> misc\_feature  
 <222> (495)..(495)  
 <223> n = unknown at position 495

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n = unknown at position 547

<400> 231  
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 ttttaattctt ttaattattt tagtttaaata tttttaaatg atgaatttaa taaaataatt 180  
 aaaataagnt ttatttttaaat aattttttct ttatgttttg gtaagattat gattaatttg 240  
 attttttata ttcctaatat attttttatt agatttataa taaaaattat agttataatt 300  
 atatcttatt aggattatga gtaggggttag aaattaggta ttataaaatt ggggtataatt 360  
 attttaatag aaaaaaatta gtattttttg gaaatatatg atttttccag taatttctgt 420  
 gtttataatt ataaaccgta attatggaat natttaataa agatgggtgac aaggatgatt 480  
 agaattatag gatcnaaaac tatttttaaata attcttatta tctaaaaatt ttataattca 540  
 aataatnta 549

<210> 232  
 <211> 548  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (531)..(531)  
 <223> n = unknown at position 531

<400> 232  
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 atacaccacc cgatgttggt ataggggctg atacaatggt cactttagac ggtatgcttt 180  
 ttggtaaacc caattctgaa gaggactctt ataacacact atcaagggtg tcgggaagag 240  
 tttgtaccgt gtacacagga gttgtaatca aaacacagcg caaaacggtc aagtttttgtg 300  
 acaataccaa agtccatttt ggaaaactca ctccggcagt gataagagca tatattgcat 360  
 caggagaacc catggacaaa gctggaagct ttggagtcca aggacgaggt gctagtctta 420  
 ttgaaaaaat ggtgggtgatt attttacagt tgtgggttac ctctacataa attatgtgtc 480

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gagttaaatt cttatgtgaa aatattaata tattataatg tgatattttg naaatatatt 540  
ggttattt 548

<210> 233  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (547)..(547)  
<223> n = unknown at position 547

<400> 233  
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cagattttgc atttccagaa gattttcaat ttggttgtgc tactgctgcg tttcaagttg 180  
aaggagcatg gaatgaaagt gctcactttt gcttattagg aaagggagaa aatatctggg 240  
atagactgat acattccaag ccagatttag taaccgatct taaaaacgct gatgtcgctt 300  
gtgattctta tcacaaattt aaagaagatg tggctgcact caaaactatt ggtgtcaatt 360  
tttatcgttt ttccatatcg tggtcacgag tgcttccact ggtgacgcat ccgtaattaa 420  
cgaggaagga atccaatatt attctgattt aatagacgaa ttactaagaa acggattgaa 480  
cccggtgtga ctctattcac tgggatgtca cagccttaca gaattggagg tttataatcc 540  
gtcatancc 549

<210> 234  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<400> 234  
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cgtgatgttt ggcggggaag gggggtggta attctgaata ttaccaggg gggatagaag 120  
gtccagaaat ccttaaaaag ttgatcacgt tattaatgga cacccttaa ttgatgatac 180  
aaagatgaga atttacatat ttctaatttc tattaatcac gtgaggtttt taggggggga 240  
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caaattattt taaaaaaaat gaagattttt acgatttttt cgtaactaaa aatacacctg 360  
atgtttgctg gggcgatgag gggggaattt tgaatattac caaggagag ggggttccag 420  
aaatccttaa aaaatttatc atgtgaccaa tggcgcccc ttaggattaa tatgcagtaa 480

aagttttttta ttcttattta tttaaaaaaa tgccatggtg tgggtcccaat aaaaacgtac 540  
gatctattt 549

<210> 235  
<211> 186  
<212> DNA  
<213> Ctenocephalides felis

<400> 235  
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gtgggtattat ggatcatgaa gaagctaggc gtaaactattt gggaggcaaa atattaggat 120  
tcttctttta agctgtatta tgcctgaat aaatcagatt tctacaacaa aaaaaaaaaa 180  
aaaaaa 186

<210> 236  
<211> 343  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (33)..(33)  
<223> n = unknown at position 33

<220>  
<221> misc\_feature  
<222> (39)..(39)  
<223> n = unknown at position 39

<220>  
<221> misc\_feature  
<222> (323)..(323)  
<223> n = unknown at position 323

<220>  
<221> misc\_feature  
<222> (325)..(325)  
<223> n = unknown at position 325

<220>  
<221> misc\_feature  
<222> (330)..(330)  
<223> n = unknown at position 330

<220>  
<221> misc\_feature  
<222> (334)..(334)  
<223> n = unknown at position 334

<220>  
<221> misc\_feature

&lt;222&gt; (340)..(340)

&lt;223&gt; n = unknown at position 340

&lt;400&gt; 236

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aagaagttga aaagattgtc acaattatgt ctnccccang acagttcaag attccagatt      60
ggtttttgaa tagacaaaag gatattgttg atggtagata cagtcaattg acctcatcca      120
atttagactc aaaattgcgt gaagatttgg aacgtatgaa gaagatcaag gcacacagag      180
gcatgcgtca ctattggggg ctgcgtgttc gtggtcaaca caccaagacc actggccgca      240
gaggtcgtac tgttggtgtg tctaagaaga aataagatac atatgtattt ttttatttaa      300
taaattctta ttctacacca tanantaaan aaanaaaaaan aaa                        343

```

&lt;210&gt; 237

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (421)..(421)

&lt;223&gt; n = unknown at position 421

&lt;400&gt; 237

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aaacatgtca cactaagtca tcgtatgaaa cgtgttccaa gaactgtttt tccccaaaat      60
atgaccatgg tcgtaaaaga agttactgaa atacttgaag atggtgccaa gtttgaagat      120
ggttcaatag agaaattcga cattatttta tattgcacgg gatattctata tagttttccg      180
ttccttagtc ctgagtgtgg aattaccgta tctgaaaatt atgtccagcc attatataaa      240
catttagtta atatcgaacg tccaacaatg gcactaatag gcatttccttt ttacgtttgt      300
gcagctcaaa tgtttgattt gcagattcgg tttgtagttg agtatttgtg tggcaaattt      360
caattgccgt ctaaagaaga aatgagagcg gatactgaac gcgacatgca aaaacgatgg      420
ncacgtgggg atagcaaaag gaaagcccat attatgggcc cagatcagga ggcctattac      480
aatgatttag cactactgtg gatactcaat tcccagtatg ctaaatacaa tgtgtagcga      540
agattcttg                                     549

```

&lt;210&gt; 238

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 238

```

ggaggtggtg ctggatctgg tatgggtact ctacttattt ctaaaatcag agaggaatac      60
ccagacagaa ttatgaatac ttattcagta gtaccttcac ctaaagtgtc agacactgta      120

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```

gtagaacctt ataatgccac tttgtctggt catcaattag ttgaaaacac agatgaaacc 180
tattgtatcg ataatgaagc tctctacgat atctgcttca gaactttgaa actcaccaca 240
cctacatatg gagatcttaa tcatttagtt tctttaacaa tgtctggagt cactacttgc 300
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ttccctcggt tgcacttctt catgcctgga tttgcaccac tcacatctag gggaagccaa 420
caatacagag cactcacgt ccagaattaa cacaacaaat gtttgatgcc aagaacatga 480
tggtgatgcg atccccgcat ggtcgactt gctgtggcac tggttcagag gcgcatgcat 540
gaaagaagt 549

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<210> 239
<211> 549
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (537)..(537)
<223> n = unknown at position 537

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<400> 239
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tgggcggcgg cggcatgggt ggtggttatg gtgaccgagg cggttctatg atggacggcg 180
gcatgggaat gcgtggtaat ggcgttgag caggtggaat gatggaccgc agaggtggcg 240
gcatgggagg cggaatgggc ggcggtggcg gttaccgga tggcggattt tctggtgagg 300
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acttagactt aggtcaaggt gggtatgata acatgtacat ggatgaccga agaggtggag 420
caccaccgat gatggatgat aggcgaggcc tgcaggtcca atgcgtcacc aatgcccatc 480
ccccaatgtt tgacaggagg cgctgtgtcc aggagcatgg tgggtggacc gtgatntca 540
caaaattct 549

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<210> 240
<211> 549
<212> DNA
<213> Ctenocephalides felis

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<400> 240
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FC-8-C3.ST25.txt

taagtgcgtg gtgaaatcat tcaatcgacc attaaattta agttaagttc agttttttat	120
caagttatatt aagtgcagct taagtgccgt ttttcgatcc atgttctgtg caaaaacgac	180
aggatgacgt tgaacgacga aacagcaacg gatgccatcg ttaacggcga tggccttgac	240
cgagacacgg gagggctgga aaaggaccct aacacaagga agaaaatgga gttatcgctg	300
catgaacgcg atagagttgg ggtgcaagat tctgttcttt tagaagacta cacaaatgaa	360
tcagttttcg tcgataatct taagaagaga tttggagaag accttatata tacatacatc	420
ggcaagtact ggtatccatc aacccttaca aagaactaaa tatatacaga gaaaagatgt	480
tttgaatatc aaagaagcgt tttccagcct acctacgtat tgcggtgaga tatgcattag	540
atcactgct	549

<210> 241  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (521)..(521)  
 <223> n = unknown at position 521

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n = unknown at position 547

<400> 241	
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caacacagcc tcaacgaagt acaaggcaaa ttggatgaaa ccaaccgcac cctcaatgac	180
ttcgactccg ccaagaagaa gttgtccatt gaaaactccg acctcttgcg ccaattggaa	240
gaagccgaat cacaagtttc acaattatct aagatcaagg tgtcattgac cacccaattg	300
gaagacacca aacgcttggc tgatgaagaa agccgcgaac gtgctacact tttgggcaaa	360
ttccgtaact tggaacacga cctcgacacc gtccgcgaac aagttgaaga ggaagctgaa	420
ggcaaggccg tttgcaacgc caactcagca aggctacgcc gaagctaatt gtggcgctcc	480
aatccaatc tgaggagtcg ccgtctgaga ctcgaaaagc naagtaattg cagccgtctg	540
ttaactnaa	549

<210> 242  
 <211> 426

<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n = unknown at position 3

<400> 242  
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 agatccccag gtgtggacaa tgcaaagaca aactcagagg catccagcct gccaggccca 180  
 tggaaagggtc cagaatgtgc agaagaaaga agacagtacg tagatcatat ggtggagtac 240  
 tctgccacaa gtgtgtaaaa gaacgtattg tcagggcttt tctaattgaa gaacagaaaa 300  
 tagtcgtaaa agttcttaaa gcacaacaag caagtgttaa agcgggctaag aaggataaat 360  
 agacctaat ctatgttaaa tataacataa taaaaacttt ctcaaataaa aaaaaaaaaa 420  
 aaaaaa 426

<210> 243  
 <211> 485  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (436)..(436)  
 <223> n = unknown at position 436

<400> 243  
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 gaaatgctct gtcaccggca ttacatcgg gaaaacttaa agctatgatg gagattatta 120  
 ttagatgcgg taaaaatttg caagaatttc ttgaagaaaa atccaacagt aaagaagaac 180  
 tcgaattcaa agacttggct gcaagataca caacagatgt aatttcttca gtagctttag 240  
 gcaatgaagt aaactcagtg aaaaatccaa atcacgaatt tcgcgaaatt ggcagaaaaa 300  
 tatttaattt acccacaaga tgggatgttg catgtcatta tgtttttcat gtcacctgaa 360  
 atcctgaata aatttaaatt ggcaaata agtcgtgaag tttatgattt catgatgaat 420  
 gtgtagacaa acagtnctt tagagaagaa aataatatac agacctgttc atgcactttt 480  
 gatca 485

<210> 244



<211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (531)..(531)  
 <223> n = unknown at position 531

<400> 244  
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 gccataatgg cactttgtct atgggttaact ataattttcg ttttaagata cacatttaaa 180  
 ttgttactga tgtacaaagg atggatgtat gaggccagag ggaaaggac ttctgtttcg 240  
 ttaccgacaa agatttggtc tgtgctagtc aaaatcatgt ccggttggaa caaaccagga 300  
 ttgtacagtt atcaaggatc actgccaaaga ctgcctttac catcggttga agacacaacc 360  
 aaaagatatc ttagaagtgt ccgtccctta ttggatgatg ccagttacaa gcgcatggaa 420  
 ggtctgactg aagaattcaa aaaaggcatt gcagtgaac tgcaaagata tctcttctga 480  
 aatctgtggc gagcactatg tctcagatgg tgggaggatt gttattgaga nggagaggac 540  
 cttatggtg 549

<210> 245  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (498)..(498)  
 <223> n = unknown at position 498

<220>  
 <221> misc\_feature  
 <222> (533)..(533)  
 <223> n = unknown at position 533

<220>  
 <221> misc\_feature  
 <222> (543)..(543)  
 <223> n = unknown at position 543

<220>  
 <221> misc\_feature  
 <222> (546)..(546)  
 <223> n = unknown at position 546

<400> 245

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attttatcga tttgcttggt ttctgtgtgca tttttgacgt ttcataatattt tcgaaaacgc	60
ccataagtat taaaacttaa aatggccagt tacagtgaag atcaattggc agagttccaa	120
gaagcctttc aactatattga ttctcggggt gatggtaaaa tagatgttag cttgggtgga	180
gatgctttga gagctcttgg tcaaaatcct actgaaactg aagtcaaaaa gttcacccat	240
caacttaaac atgatgaccg catttctttt gaagtatttc taccatata tcaggctatc	300
tcaaaagggc gctcagcaga tacggctgaa gattttattg aaggtttgag gcactttgat	360
aaagatggga acggttttat aagttgtgcc gaattaagac atttgctttg tactttgggg	420
gaaaaactta ctgtgaggag gtcgagcaat tgcttcaaaa ccaagaagat ctcaagcaac	480
atcaattatg aagattgnaa gaatggcatg tccggtgaat cataaattga agntttaata	540
acntcntca	549

<210> 246  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 246	
gctgatgatg ctgatgtaga tatgggtgta agagcagcag tatttgcctg cgttggaact	60
gctggtcaga ggtgcacaac aacccgacga ttaatcgtac acgataaagt ttacgatgaa	120
gtgatctcac gattgaagaa agctttcgtc caagttctta caagaattgg tgatccattg	180
gacaaagata ctttatatgg acctctacat tctgaaaatt ctgttaatga atacaagaga	240
acgattgaag aagctaagaa attgggcggg aaaattgaat ttggaggcaa ggtggtagac	300
aggcccggat tcttcgtcga acccacaatt gtttctggat tggcccatga tgcccctgta	360
gttcgcagcg agtgctttgc cccaattgta tacgccttga gagcctcttc tgtccaggag	420
gccttcaa at ggaataatga agttgaccag ggattatcat ccagtctctt cacccaaagt	480
attagcacgt tttcgattgg ataggccatg ggtcagactg cggattggaa cgtcaacatt	540
ccacatcag	549

<210> 247  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 247	
ccaaaatgaa gttgaatgtg tcttaccgga caacgggatg ccagaaattg ttcgaaattg	60
tggacgagca caagcttcgt gtcttctatg aaaaacgtat gggagcagaa gtcgaggccg	120
acatcctcgg cgatgaatgg aaaggttatg tactccgaat tgcaggagga aatgacaaac	180

FC-8-C3.ST25.txt

aagggttccc catgaaacag ggtgtcttaa ctaatgttcg tgtacgtttg ctgttgtcaa	240
aggggcactc ctgctaccgc cccgctcgta ctggagaacg taaacgtaaa tctgtacgtg	300
gttgcatgtg tgacagcaac ttgtctgttt tagctcttgt cattgtacgc aaaggagtca	360
atgaaattcc cggattgacc gacggcaatg taccaagaag gcttggaccc aagagggctt	420
caaaatccgt aagctgttca acttgacaag gaagatgatg taccgctatg tcgtcagacg	480
tccacttcca gtcaaagaag gtaagaaccc gtacaaaggc ccaagatcca aagctgtcac	540
tccacatct	549

<210> 248  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 248	
attaaaaaaaa aatctcaa at cgatcataaa agttttaata ttaatttcag taattaatac	60
aacttctgga tcagatgcta acaaatacga agccacctgg gagagtttgg atagcagacc	120
atctcccagt tggatgatg atgccaaagt tggaatattt ttacattggg gagtttatgc	180
agtaccaagt tttggcacag aatggttttg gcaaaattgg caaggatcta atgtgtcctc	240
ctacgtggat tttatgaatc agaactatcg accgggattt acatatcaag attttggtag	300
agaatttact acggaactgt ttgatccaaa cactggggct gagctattcc aagcttctgg	360
ggctaaatat gttgtgttaa caagcaaaca tcacgaagga tacaccctgt ggcacaaag	420
tactctttca gttggaactc ccaggacgtt ggtgctcata aggattta at aggtttacta	480
ccaacgcaat tcgcagcaaa accaactacg tttcgtctct atcactcttg tcgatgggtca	540
cagacttat	549

<210> 249  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (454)..(454)  
 <223> n = unknown at position 454

<220>  
 <221> misc\_feature  
 <222> (519)..(519)  
 <223> n = unknown at position 519

<220>  
 <221> misc\_feature  
 <222> (529)..(529)  
 <223> n = unknown at position 529

<220>  
 <221> misc\_feature  
 <222> (535)..(535)  
 <223> n = unknown at position 535

<400> 249  
 gttatcaaca ggatttttga gatcgtgcaa ggtgtttcca acctagtcta acttcttcat 60  
 cttcaatatg tgatgaacga ttcacttga accctgataa tgagcaaaga atgattttac 120  
 aagaagctct gtccaaagca cacactcatt taggcactgg agcatcaata ggttccgggtt 180  
 ccatttctgg tagctccatt ggttcttctt ctacgtcgtc ttcctcatct agttcttcct 240  
 caagttcttc ttcattggtct ggcagcggaa tgggagttag ttcaactcaa ggacaaaagg 300  
 aaattgttca aatcagccca caaaaagtag ggcttaaatt aagaattaat gaagttcata 360  
 aactaaatgt ttattatgca caagctgaga ttatccagta gattatatta tttgatggac 420  
 ttgctaagtc tatggaagat gataagagag atgncagcat tggagattac tctcagaacc 480  
 tgagaaatat actcaaattc cggtgggttt ggactttgng gataagtng atgcntatgt 540  
 gcaacatgcc 550

<210> 250  
 <211> 472  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (440)..(440)  
 <223> n = unknown at position 440

<400> 250  
 gcaataaatt ctgtgttgat atatcttgtc atattaaaa caagtgaact tgtgaaaatt 60  
 tgcaattaat ttgggtgaca ataatgagac ttattatatt tatatcgtgc ttggcatcaa 120  
 gtacggttta aatgtacct tagtcaaagg cataataaaa acgctagtgg aatttgcacc 180  
 aagtgttatt gtataaaact gcaatatgat caatataaaa agtatatgtc cttatttttt 240  
 tgtttatatt ttactttcat cttatataaa cactatttta tgtatcccgg taccaatgag 300  
 gcgctgtgca aagttatata actcaataag tcctcaagcc tcggcagagt acgatgagaa 360  
 tggcgatata tcaaaagatc tggtcgaaaa tctcttacac aggtgtagaa caatgcacaa 420  
 gtaattttgt actcttgtgn cggaaaatga aacgggtctct catgtatggg ca 472

<210> 251  
 <211> 339  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n = unknown at position 13

<220>  
 <221> misc\_feature  
 <222> (54)..(54)  
 <223> n = unknown at position 54

<220>  
 <221> misc\_feature  
 <222> (108)..(108)  
 <223> n = unknown at position 108

<220>  
 <221> misc\_feature  
 <222> (139)..(139)  
 <223> n = unknown at position 139

<220>  
 <221> misc\_feature  
 <222> (274)..(274)  
 <223> n = unknown at position 274

<220>  
 <221> misc\_feature  
 <222> (305)..(305)  
 <223> n = unknown at position 305

<220>  
 <221> misc\_feature  
 <222> (311)..(311)  
 <223> n = unknown at position 311

<400> 251  
 ggtcctaatt tanttaccctt attccaaaaa ttttaaattt ttgccaaaaa tgcnttttcta 60  
 ccatggttaa agctcaaata tccggacttt ttattgcct tattattnga tgaataattt 120  
 cgattatttg atttcgatnc aaaatctaaa tgaaccagtt taaatccaaa tcaaataatt 180  
 gaaattattt gtaacaaaaa aaaaatttat aatcccaaaa atataaaaaa tatttatttc 240  
 tactcattga acacaaaatt cacatagaaa atgngcctgt ttgctataca atatagatta 300  
 aaatntacgt ncgtatttta ataatttttg catatttat 339

<210> 252  
 <211> 549

&lt;212&gt; DNA

<213> *Ctenocephalides felis*

&lt;400&gt; 252

```

ccggcagacc gtttttgttt gctgcattac tcttggtggc gaaattagtg cacgatggct      60
caaccactag ctacatctga tatcaagtat accaagctat tcatcaacaa tgaatttgtc      120
gattctgtaa gcggaaaaaa atttcctact attaatccaa ccaatgaaaa gaaaattata      180
gatgtatcgg aaggtgataa ggccgatgta gatctggcag tcgctgctgc caaaaaagcg      240
tttgcgctaa actcagcatg gcgccagatg gacgcatctg cacgcggaaa gctacttaac      300
aagtttgctg atttgattga aagagatctt caatatttag caaatttaga aaccttagac      360
aatggaaaac cattttctaa tagtatcata gatatacagt gcgctatcaa taccatcaga      420
tattatgcgg ctggtgcgac aaaattcatg gtcatacaat tcagcagatt atggattgcc      480
agcttcacat tcgacaccag tgggtgtagta ggtcagattt accttggact tccaatgcta      540
tggtgcctg                                     549

```

&lt;210&gt; 253

&lt;211&gt; 549

&lt;212&gt; DNA

<213> *Ctenocephalides felis*

&lt;400&gt; 253

```

aacagctgtt tgtgccgtac ggtgggtcccc gcgtgtgtag cattgtagca gtatcaaagc      60
gaagctcgat cgatccggtc gagacgtgaa gccgcgcgca taccctcgct tcagagacaa      120
tttacagact ccggagttaa tatcacgaaa ccactttgtg ttcgacttct cagtacgaca      180
gtgtcgggtca tttcaaagcg gcgttggtgtg tgtccatcta tcatttataa cgggggttcct      240
gattttttcga aggttcagta ataattttcg tatttcgtta tggcgatgag atgtgtagga      300
ttgctcgtca agagcaccat ggtccagtc ccacagcgca ggctgatatc ccaatcagct      360
gttgctatga acaggatgct tcaggattca ccaaagctc acctagataa atcaatcttg      420
caaagggtaca ctgctcttct caagacgata ggtcacgcag gtcacttacg tgtggatcga      480
tggacggtga gtacttgccg ctaaggacgt gtcttgaatt aacctccaaa ccagaaactg      540
caaatggac                                     549

```

&lt;210&gt; 254

&lt;211&gt; 549

&lt;212&gt; DNA

<213> *Ctenocephalides felis*

&lt;400&gt; 254

```

gttgattata gtccttgacc tttaactgga gctttaggaa ctttaagttt aacattaggt      60

```

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ataattatat gatttcatca atttaattat acattaatat tattaggaat aataattacc	120
ttattaacta tatttcaatg atgacgagat attagtcgag aaggatcatt ccaaggtctt	180
catagtttaa tagtttctaa aggattacga atcggaataa ttttatttat tatttcagaa	240
attttattct ttttttcttt cttctgagca tttttcata gaagattatc accttctatt	300
gaattaggaa taatttgcca cttttaaata ttaaaatatt taatcctttt caaatccctc	360
tattaaatac agcaatttta ttatcttcag gaatttcaat tcatgagctc atcattcatt	420
actagaaaaa aatcattcag aaacaataaa aagttattta ttcaattatt ttaggaatta	480
tttttctata cttcaatgga tgaattttag aagctctttt caattgagat caattttgga	540
caatttttc	549

<210> 255  
 <211> 465  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 255	
gtttgtaacg gcttccaaag atatgactgc taaacttttt gacactgatt cgcttttatg	60
tttgaaatgt tacaaaacag aaaggcatgt aaatagtgcc gccatcagtc ctattaaaga	120
acatgttgca ttgggagggtg gtcaagatgc tatggaagta acaaccacat cctcaagaca	180
gggtatgttt gaaactagat tcttccactt ggtctatgaa gaagaattcg gtcgtgtgaa	240
gggacatttc ggtccagtaa acagcttgaa gttccatcct gatggaaaga gttttgctac	300
aggaggagaa gatgggttttg ttcgagttca aaattttgat tatacatatt tagattatgc	360
ttttgaataa acttgagaat tttcatattt gtaatttgtc caatttatac aatgttcaag	420
atgatgaaaa taaagtataa ttatactgta aaaaaaaaaa aaaaa	465

<210> 256  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (3)..(4)  
 <223> n = unknown at positions 3 and 4

<400> 256	
ttnnaccgta gctctaaagt gacgttacaa tgtcgggagg cttggatgtt cttgccctac	60
gggaagatga tgttaccaa atgtagccg catgcacca tcttggcagc gaaaatgtga	120

FC-8-C3.ST25.txt

```

acttccagat ggagcaatat gtgtacaaac gccgtgctga tggagtacat gtaatcaact 180
tacgtcgcac atgggagaag cttttgttgg ctgctcgtgc tattgttgct attgagcatc 240
cagctgatgt cttcgttatt tcctccagac ctcaaggaca acgtgcagta ttgaagttcg 300
ccaactatac tggtgctact ccaattgctg gacgtttcac tcttggtgcc ttcactaatc 360
agattcaagc tgcattccgt gaaccacgtt tgctgattgt tactgatcct cactccgata 420
accaacccat cactgagggt tcatatgtga acattcctgt attgcattca ccaacactga 480
ttctccattg aaatttgtga tattgaattc atgcaacaca agtccaacca tccgtgggtt 540
gatgtgtgg 549

```

```

<210> 257
<211> 549
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (16)..(16)
<223> n = unknown

```

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<220>
<221> misc_feature
<222> (45)..(45)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (82)..(82)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (95)..(96)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (118)..(118)
<223> n = unknown

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```

<220>
<221> misc_feature
<222> (128)..(128)
<223> n = unknown

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```

<220>
<221> misc_feature
<222> (131)..(131)
<223> n = unknown

```

```

<220>

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<221> misc\_feature  
<222> (176)..(176)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (179)..(179)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (201)..(201)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (297)..(297)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (388)..(388)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (416)..(416)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (437)..(437)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (440)..(440)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (459)..(459)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (462)..(462)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (472)..(472)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (481)..(481)  
<223> n = unknown

```

<220>
<221> misc_feature
<222> (524)..(524)
<223> n = unknown

<220>
<221> misc_feature
<222> (542)..(542)
<223> n = unknown

<400> 257
aatttgggac gagagnttat tattttaagga taaggtaatt tgcanggtct taagcactat      60
tatttttgata aaaatgaatg anaagtcaga aaatnnattt caaacccaat ctgatttnaa      120
ttaccttnct nttattgttg gaataactgt agttttcgtc acattaattt tattcnttnt      180
gtggcaaaga agaaaagggtg ntcgaaggga tatattgata actggactta gcgatgctgg      240
gaaaactttg ttgtattcac agctgggttca ttcacagtca aaagatactc atacttnaat      300
tgctgttaat gtcgatgaat acatcacaaa gaatgcgta gtaagagttg tggatatttc      360
tcccccccaa agattacgtg gaagattntt gatgattaca aagattaaaa cgagggnattg      420
tgtttgttgt tattcancan tttggataaa gacatttgng angtagctga gncttgacac      480
nattctttct gaaaattagt tactttcta gtcacacaaga ttgnacttga atccctgttt      540
gnatatggt                                         549

<210> 258
<211> 549
<212> DNA
<213> Ctenocephalides felis

<400> 258
gtggtggttag cgcgactgt ttcaactatt ttagcggcaa gttgttcaaa tccagaagtt      60
acagccacat ctttcactac gcaagatgct acaattgtta caaatatagc atttattgct      120
gaatttacat taaaatgcag tccaagtgtt cctagtggca tacctttgta tgctgaaatt      180
gatggtaaag taatgccgac tgctagaatt ggagataata aataccaagt tagctggact      240
gaagaaatta acaaagctcg cagtgggtgat cataaagtga gattatatga tgaagaaggt      300
tatactgcag ttcgtaaagc tatgcatct ggtgaagatg ccagtgctgt caggtcattg      360
gtgactatcg ttatttcaca tcttggtgca tttactggtc catgggtcaa ttctgaattg      420
gtgctcatta gctgctgtgg tgtagcttac ttagcattac ttcaaataca aattattatt      480
atagatgatt taattatagt aatgtaaaat ttattattaa atacaatctg attttataaa      540
aaaaaaaaa                                         549

```

<210> 259  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 259  
 agatggttgt ggtgatctga atatttagta taaatttggtg ttttagcgt tcatttatca 60  
 gttaagtgat caaaaatgtc tttcaatcaa gatattaaaa cagaaaacgg tggatgaattc 120  
 gcccaagatg ttgaaatgaa aactcacaat acagacggca gtggtgacgc atcaacaaca 180  
 caaaatggac acgcgggaaa gcctcggttc gacgatagaa aattattcat cggtggactg 240  
 agtgccgaaa ctaccgaaca acaattacgc gatcatttcg ttcaatacgg tgccatcgac 300  
 tccgtggatg tgaaaagcga cccaaatacc ggcagatcaa aaggattcgc attttttagtg 360  
 ttgcggtccg tggactccat tgaaaaagcg cttgcggtca gtgaacatgt cattaattct 420  
 aagaaaatag acgttaagaa agcaaaagcg aaacacggaa agttttcgtc ggcgggttaa 480  
 tacaacaata ccgcgatgat attaaaactc atttcggcaa tttggaaatt cgcgagtcga 540  
 ctcccttgt 549

<210> 260  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (473)..(473)  
 <223> n = unknown at position 473

<220>  
 <221> misc\_feature  
 <222> (521)..(521)  
 <223> n = unknown at position 521

<220>  
 <221> misc\_feature  
 <222> (526)..(526)  
 <223> n = unknown at position 526

<400> 260  
 gaaacttggc gcttattgga gcacttcttc ttgtacttgc tgaatctcga gtggaaggaa 60  
 gaagtctttt tgctggaatt cctactatgg gtgattcaag gccaaaaaat tatttacaac 120  
 tggctggcag aattttacta gctttcatgt ttattacatt aattcgtttt gaattaagtt 180  
 ttttacaggt tatacaagat ttaattggat ctgttttaat ggtattggta accattgggt 240  
 ataaaacaaa attatcagct ctgatttttag ttctacttct ttcattttta aatttatacc 300

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acaatgcttg gtggacagtg cctacctata agccattaag agattttctc aaatatgatt	360
tctttcaaac attgtctgtg attggaggtc ttcttatgat tgtttccttg ggcccaggtg	420
gagtttcgat ggatgaacat aaaaaagagt ggtagaaaaa tcaggaatat tgngccgtgt	480
gctagtataa caattatata tatatatata tatatatatc ntatcntata tatatatata	540
tatatatat	549

<210> 261  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 261	
cgtaaaatca agaaacttct aagaaaatta atgtcactgt taaaacacca aaagagaaac	60
aaacagtgga agttgaggaa gatgccgaaa ttaaagactt caaaactttg gttgctcaga	120
aattcaacgc agaacctgag caattatgtc ttatttttgc gggaaagata atgaaggata	180
ctgatacttt gaaagggtcac aatattaagg atgggtcttac tgtacattta gttatcaaaa	240
ctcctccaag gcctgagcca gaaagggcag ctgagagacc tccagctgat atcagtgcaa	300
caccttttgg attaaattca ctaggagggt tagttggatt agagtcattg ggtttagggtc	360
aaggttcatt catggattta caagcacgga tgcaaaatga actcatgact aaccccgata	420
tgtaagaaa tgttttagat aatccacttg ttcagcagtt gatgaatgat cctgaaaaca	480
tgagacctta attacatcta atcctcaa at gcaagattaa tgcacgcaat ccagagattc	540
tccatgctc	549

<210> 262  
 <211> 502  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 262	
gctgtacact cacgctctcg tgtacgtaaa aatactgaag ccagaaggaa aggtcgccac	60
agcggttttg gtaaaagaaa aggtacagct aatgcccgta caccacaaaa ggatctatgg	120
gtacaacgta tgagagtect gaggcgtttg ttgaaaaaat accgtgaagc aaaaaagatt	180
gatcgccatt tgtatcatgc actttacatg aaagcaaagg gtaatgtatt caagaacaag	240
agagttctta tggaatacat ccataagaaa aaggctgaaa aggcacgtac taaaatgttg	300
aatgaccaag ctgaagctag gagaacaaaa gtacgtgaag cacgtaaacg acgtgaagaa	360
agaattgcta ctaaaaagca agagctctta caaacttacg ctaaggaaga tgaagcagca	420
gccccaaaa ataaatgtcc cttccttgta aataaaataa atttatataa atttaaaaaa	480

aaaaaaaaaa aaaaaaaaaa aa

502

<210> 263  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown at position 32

<220>  
 <221> misc\_feature  
 <222> (512)..(512)  
 <223> n = unknown at position 512

<400> 263  
 ggttactatg cctttctcgg ttcgagaagg tnttaacata tttttggacg gttatgtgcc 60  
 aactgaaaac atgagattca ggactgaatc gcttgTTTTT aaagtagccg aatcggcaac 120  
 cgaggaagag gtgaaacgta tgaaccatta cgtttaccCG gcaatgtcaa agacaatggg 180  
 cgatttccat ctggaaatca aacagggcca gttttcggat tccgaaattt tagtattatt 240  
 gggcgaaaac ggtaccggta aaacgacatt catcagaatg ttggccggaa acttgaacc 300  
 tgatgcaggt tctgcgaagt tgccacaatt acacataagt taaaaaccgc agaagatttc 360  
 accgaaatct caagggcacg tgaggcattt gttgcacgag aaaattaggg acgcatatat 420  
 acatccacag ttcataacag acgtaatgaa acccatgaaa atcgaagaaa tcatggccaa 480  
 gaagtccaaa acctctcggc ggcgaaactgc ancgcgtcgc ctctgtcttgc tcggaaaccg 540  
 gccgcgtct 549

<210> 264  
 <211> 534  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 264  
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 ccaagtTTTTT ggcagaaaaa agacagccac cgctgttgcc tattgtaagc gtggacgtgg 120  
 aaatttgcga gtaaatggac gtccttttga actcgtggag ccaaaagttc tccaatacaa 180  
 gttgcaggag cctattctac ttttaggcaa ggaaaaattt gccggtgttg atatccgcgt 240  
 tcgagtaaat ggaggagggtc acgtcgaca aatttacgct atcaggcaag caatttcaaa 300  
 ggcttttagtt tcctattacc agaaatatgt cgatgaggcg tctaagaagg aaatcaaaga 360

FC-8-C3.ST25.txt

catgctgatt caatacgaca ggaccctggt cgtagcagat ccccgctggt gcgaacaaaa	420
gaaatttggg ggtcaggtgc ccgtcacgtt accaaaagtc atccgtaatt tatattatct	480
ttttttaaat tctattataa taaattgggt gcagaaaaaa aaaaaaaaaa aaaa	534

<210> 265  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (43)..(543)  
 <223> n = unknown at position 543

<400> 265	
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ttgcaaaagt tttgttagaa ggaacaaaag ttgtttagt aagatgtgaa caactgaata	120
tttcaggaaa cttcttcagg aacaagttga agttcatgtc cttcttgctg aagagatgta	180
acatcaaccc tgcacgagga ccttaccatt tcagagcacc ctccagaatt ttgtggaaga	240
ctgttcgtgg tatggtgcc aacaagaccg aaaggggaaa gcaagctctt cgcagactta	300
aggcatatga aggttgccca gcaccattcg acagaaggaa acgtctagtt gttccaaaag	360
caatgagagt catgtgtctt aaacctgccg caagtactgc atgttggtcg cttatcaaat	420
gaggttggat ggaaatatca agatgttggt gtactcttga aaacaagagg agagttaaga	480
ctattcttaa catcaaaaag agaaataatc ttaagaactc ctaagaagga ggtgagcagt	540
cgncaaaagg	549

<210> 266  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 266	
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gaccgattac tatgctcgta agcgtcttac agtacaggac aaaaacaaat ataacactcc	120
taagtatcga ctgatcgtgc gcctttcgaa caaagatatc acctgtcaag ttgcttactc	180
cagaattgaa ggagacaaga ttgtgtgcgc tgcttattca catgaattac caaagtatgg	240
tatcaaagta ggtttaacta actacgctgc agcatattgc acaggcttgc ttttggctcg	300
aaggctctta' caaaagttcg gcttgataa tttatatggg ggctgtactg aagtaacagg	360

FC-8-C3.ST25.txt

cgaagagtac aatgttgaag ctctggatga tggaccagct gctttccggt gctacttaga	420
tgttggttta gcacgtacaa cactgggtgc tcgtgtgttc ggagccatga aggggtgctgt	480
gtgggtggctt aaatattcca cactccacta agcgtttcca ggtatgatgc tgaaagcaaa	540
agctcatgc	549

<210> 267  
 <211> 514  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 267	
ctgttaaaac atcaattaca atatgtcaga cgtagaagtt gatgtacctt cttcggcccc	60
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tattcatgat ggacttgtac atggttttaca cgaagccacc aaatctcttg acaaacgaca	180
agcagttctt tgtgttttgg ctgaaagttg cgatgaacca atgtacaaaa aattagtaca	240
agctctgtgc aatgagcatc agattccctt tgttaaagtt gatagcaaca aaaaactagg	300
agaatgggca ggtctttgca aaattgacaa agatggtaaa gccagaaaga ttgttggtatg	360
ctcatgcgtt gtcatcagag atttcgggga agagactcca gctttggatg ttttgaagga	420
ctatttgaaa caatcgagtt aaactatctt gctattttta attatgaaat aaaaatacaa	480
aaacctaaaa aaaaaaaaaa aaaaaaaaaa aaaa	514

<210> 268  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 268	
aattcggcac cagggtcggc tttagtcgta acaaattgaa tatcaaaaaa taatgataaa	60
tttatcattc agtcttattc taaaatcgta gacgtgatgt tgttttggtt agttttaatt	120
tttgtgttgt gtttttatgc ctatttttagg ctaaatcgag tgcgacgatt tgctgataag	180
ataccaggag aacaaccatg gcctatagca ggaaacgcct tagatattgg gacggatcat	240
acgaaattat tacaaaaact tatgcaatat ttggataagt ataaattttc tcgatttggt	300
atttggtctg ggatggacta ttttgtgttt ttagtagaac ctgatgatgt tgagattatt	360
ctaagcaaca ccacaaatat aaccaaatac aaagaatatg attttctgca caaatggctt	420
ggagctgggtt attaacatcc acaggcgata aatggcgaca tagcccgaaa aatcattacc	480
ccacattcca ctttaaaatt ttagaggaat atgcagaggt gatgaccgtg agtgtacttg	540
gttaaaaaat	549

<210> 269  
 <211> 477  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 269  
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 ttagtgtttc agaaaaatga gagctaagtg gcgtaaaaag aggatgcgca ggcttaaacy 120  
 taaacgcagg aagatgcgtg ctcggttccaa gtaaataaac gattgcaatc atttaacact 180  
 tgtgtatatt tttgcagttt attgtgaagc tcattatcat aatggccaaa atgaaatatt 240  
 ttcgatattc aatcgacatt cattatatatt aagtaacaat agtatatgta tagcctgttt 300  
 ctaaattatt atgcaagcat aaactaaaaa ttatttatta aacaaatgtt atttaatata 360  
 ttattgaatt atttatatata ttgaattgaa ttgttataaa cccgtattaa tgaattatta 420  
 taaacccgta ttatacagaa atatatatatt attaattgca aaaaaaaaaa aaaaaaa 477

<210> 270  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (456)..(456)  
 <223> n = unknown at position 456

<220>  
 <221> misc\_feature  
 <222> (495)..(495)  
 <223> n = unknown at position 495

<400> 270  
 agagtattct gtatctatta ccatagtgtt ttgtttgttt aaatagtttt taaagataac 60  
 aaaatgaact taattatact tttcggcctg tgttttgtta cgttttgtac gggacatgag 120  
 gaaagccctt acacattcca atatacgaaa gagaactttc aagagggagt tggaaaaaat 180  
 aaccatttca tcatgtttta tgcaccctgg tgcggttact gccaaaaatt ggcgcccaca 240  
 tggaaccagt tagccgaaat gttaaattca gatgagcatt caagagtcac cattgccaaa 300  
 gttgattgta cgactgacaa tgaagtttgt tctcaacatg atgttacagg ctaccctact 360  
 ctgttatttt tcaaattgga caccgaagaa cctgtgaagt tcaaaggaac tcgagatttg 420  
 ccaactctca cagcttttat taatgaacaa attggngcaa tgaacctttg gatgttgaat 480  
 cgattccaca tatntgatg ctgcaatggc tagttgaacc gcagaagata gggttgagat 540



atgtcagag

549

<210> 271  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (443)..(443)  
 <223> n = unknown at position 443

<220>  
 <221> misc\_feature  
 <222> (543)..(543)  
 <223> n = unknown at position 543

<400> 271  
 gttagcccaa ggtttaatag atcgtggcca ttttgataaa gagaatataa aaattagaca 60  
 agctgatatt gaaaaacaat ttgacaattt gaaaaacttg agtttacaaa gggaaaaacg 120  
 gcttgctgag agcaagaaat tcttcactt tattcaaagtg gtagaagagg ttcaggagtg 180  
 gataaatgat cagatatcaa ttgcagattc tgaagattat ggaactgatg ttgaacatgt 240  
 ggaattgctc ataaagactt ttgatacttt tgtagcagga ttaatagcta gtgaaagcag 300  
 aattataaat tgtacagaca caggaaagaa attgattaaa gaaggaaatc catgcgctga 360  
 tactattcga gataaaattg atgaaacaaa acaattatgg gatgacttaa aagaattagc 420  
 tcatgttcgg caagaggcat tgntggtgct aaacttgtca tgtgtttgcc gcaatgctga 480  
 tgaactattt cctgatagct gaaaagaatc gacataccac tgccatactt caagattaga 540  
 agnatccat 549

<210> 272  
 <211> 515  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (28)..(28)  
 <223> n = unknown at position 28

<220>  
 <221> misc\_feature  
 <222> (145)..(145)  
 <223> n = unknown at position 145

&lt;220&gt;

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<221> misc_feature
<222> (178)..(178)
<223> n = unknown at position 178

<400> 272
ttgcccttag tctaaaatgg ggcgtgtnat cagagctcaa agaaaagggtg cgggctccgt      60
cttcgtggcc catacaaaga aaaggaaagg ggcacctaaa cttcgttcac tcgatttcgc      120
tgagagacac ggttatatta aaggngttgt caaggatatt atccatgacc ctggtcgngg      180
agctccctta gctatgggtc acttccgtga tccatacaag ttcaagacca gaaaagaatt      240
gttcattgca cctgagggta tgtacacagg acagtttgtg tactgcggtg aaaaagctaa      300
tctacaaata ggaaatgtaa tgccagttgg tgctatgcca gaaggaacca ttgtatgcaa      360
cttagaggag aaaactggcg accgaggtcg gctaccctgt cttctggaaa ctacgctctg      420
ttattgctac aaccggcac taaaaagact cgtgtcaagc tt cattggag ctaaaaagg      480
atgcctttac atcgtgctat ggtggattgg gctgg                                     515

<210> 273
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (488)..(488)
<223> n = unknown at position 488

<400> 273
aagcattctc atactttgca acagctcaac aatggaaaaa aaattcctcc aagcaattgg      60
aaatgtgaga aatgtgatct cacctcgaat ttatggctta atttatcaga tggatccatt      120
ttatgtggca gaaaatTTTT tgatggcaca ggaggaaatg atcatgctgt tgaacactac      180
aaagcctatg gttatcctct ggctgttaaa ttgggtacaa taactaaaga aggtaaagg      240
gatgttttca gctacgatga agatgatatg gtagaggatg ttaacttaaa gcagcatcta      300
gcacatTTTtg gaatcaatat aactgattta gaaaagactg aaaaatctat ggtagaattg      360
gagcttgatt taaaccagcg agtaggggag tgggggtgctc ttactgaaag ctcaaagtcc      420
ttgaaacctg ttatggcctg gttatactgg ctgagaaatt tgggaaattc atgttatttg      480
aacagtgnat gcagtttgtc actatccaga cttattctta gattgcatga tcacctagat      540
atcacacat                                     549

<210> 274
<211> 406

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&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (55)..(55)

&lt;223&gt; n = unknown at position 55

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (349)..(350)

&lt;223&gt; n = unknown at positions 349 and 350

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (352)..(352)

&lt;223&gt; n = unknown at position 352

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (400)..(402)

&lt;223&gt; n = unknown at positions 400, 401 and 402

&lt;400&gt; 274

cgtttagctaa agatttattg catccgacga ttgcggagga gaagagacgt cacangctaa 60

agcgtcttgt gcagcatcca aattcttatt ttatggatgt caaatgtccg ggttggtata 120

aaattacaac agtttttagc catgcacaaa gtgtagttgt atgtgctgga tgttcaacaa 180

tattatgcca accaacagga ggtcgtgctc gtctgactga aggatgttcg ttcaggagga 240

aacaacatta atttaagtta tttcctactt tgtttataag atgtaaaagt taaattgcct 300

tgtagatttt tttaaaactc taataaaggc aaatttgaaa aaaaaaaann gnaaaaaaaaa 360

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nnaaaa 406

&lt;210&gt; 275

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (353)..(353)

&lt;223&gt; n = unknown at position 353

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (365)..(365)

&lt;223&gt; n = unknown at position 365

&lt;400&gt; 275

attacgcaga accttctgca aaaaatgcaa gggttcacaag caacacaaag taacacaata 60

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taaaaaatca aaagaacgac atgcagccca gggacgtcgt cgttacgaca gaaaacaaca	120
aggtttttggg ggtcagacca aacctatctt cagaaaaaag gctaaaacta ctaagaaaat	180
tgtattgaga atggaatgct ccgactgtaa attcaggaaa caaatcccac ttaagcggtg	240
caagcacttc gagcttggtg gtgacaagaa gaggaaggga cagatgattc agttctaaat	300
gtgtattttt ttacatagc actgtattaa gtttaataaa gcagtttaat gtnaaaaaaaa	360
aaaantaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	399

<210> 276  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (417)..(417)  
 <223> n = unknown at position 417

<220>  
 <221> misc\_feature  
 <222> (516)..(516)  
 <223> n = unknown at position 516

<400> 276	
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gcaccaatgt ttgtttgtgg tgtaactta gaagcttatg acccgcccat gaaagttgta	120
tctaattgctt cttgcactac caattgttta gctcctttgg ctaaagttat tcatgataac	180
tttgaaatcg ttgaaggctt tatgactaca gtccatgcta ccacagccac ccaaaagact	240
gtggatgggc ctacgggtaa gttatggcga gatgggcgtg gagctgcaca aaatattata	300
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cttactggta tggcgtttag agtccaatag caaacgtttc tgtggtgatc ttactgnaag	420
attgggtaaa aatgcactta tgaagatatc aagaacaaag taaggagcat ctgaaggctc	480
ttgcatggaa tttggattat acagaagatg atgtgngtct gtgattcatt ggtgatccct	540
ctcgatctt	549

<210> 277  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 277	
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FC-8-C3.ST25.txt

tgatgctcca cgagctgtat tcccatcaat tgttggggcgc ccccgtcac	aaggtgtgat	120
ggtcggcatg ggacaaaaag acagttatgt aggtgatgaa gcacaaagca aaagaggtat		180
cctcacattg aaatacccaa ttgaacacgg tattgtcaca aactgggatg atatggaaaa		240
aatctggcat cacaccttct acaatgaact ccgagttgcc ccagaagaac accctgttct		300
cctcacagaa' gcccattga atcctaaagc aaacagggaa aagatgaccc aaattatgtt		360
tgaaaccttc aacactcctg catgtacgtt gcatccaggc tgtctgtcat tgtcgcttct		420
ggtcgtacca ctggtattgc ttggatttgg tgatggtgtt ctcacactga ccaatctatg		480
aaggatcgcc ctcctacctt cttgcgtttg gacttgctgc cgtgacttac tgatattaat		540
gaaatctaa		549

<210> 278  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 278		
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tgtctagtgt gtatgagaat aaaaatgggt ttaaagatgg atgtatcgac ttcacggcag		120
gaccccttggg aggtgtggca ttggtgctag tcggtcaacc tttggatacc gtaaaagtga		180
aaatgcaagc tttcccaagt ctttatagtg gcatgacaaa ttgtataaaa aagacagtta		240
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ttgctgaaaa ttctgtatta ttcgctggct acggagcttg ccaaaaattc attgcctact		360
tgactggcga aaaagatgta tctaaattaa gtacttttag taatgcatct gtggtgctcg		420
ctgcattttt ttcacattc acattatgtc caactgaatt ggtaaatgcc actccaagcc		480
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taaccaacg		549

<210> 279  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 279		
agcggcttcc accttctttc gctatttgtt ccgcaaagaa tatgaaaata atatattaca		60
catagtgcac gtagtttttc taatacatga tacacttata aaataaataa taacaaacat		120
ttgaagttga tacaaaagta catcagggtta aaatgccgga aggtgtagaa aatttagttc		180
taggagaatt atatacatcg gagaagaatg gtagtgatga aacaggagat ggaactgcag		240

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atcgcccttt caaaacaatt cttcaagcca tgaaacatgc tggtaaggag ccattttccaa	300
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ctcaattgaa gaaaatacaa aaaatatggg tgagagatac atataaaaaat gcagataaat	420
taaagaaaga ggaagaggat gcaaagaaac gagaacagaa tctgtggaag ctaaaagatt	480
caaatcaaga agacaaaatt accaccgtaa gtataaaatt aacaggatgat tcatcgaatt	540
gccggttaa	549

<210> 280  
 <211> 528  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 280	
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gaaaaagttc attcgccatc aatctgaccg atatgataaa cttagagga actggcgtaa	180
acaaaaaggt attgacaaca gaggacgtcg tcgtttcaag ggccaatttt tgatgcccac	240
cattgggttat ggatccaaca gcaagaccg tcatatgttg cctactggat tccacaaggt	300
tttgggtacat aataccaagg aacttgaaat cctaattgat cagaatagga catactgcgc	360
tgaaattgca catggtgttt cttcgaagaa acgtaaagag atcacagaga gagccaaaca	420
attgtcatca gagtcacaaa tggcaatgca gactccgctc acaagaaaat gaataaatga	480
ttgataactt catataataa acgctaaaag taaaaaaaaa aaaaaaaaa	528

<210> 281  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (489)..(489)  
 <223> n = unknown at position 489

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n = unknown at position 547

<400> 281	
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aattatccaa cgttacctga ttgcaaatct taaactgcat taagtataa aacacaaagc	120

FC-8-C3.ST25.txt

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attctgaaat aaattttgtt ctggggatag acatgcattc acataagttc aatggcttga 180
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aatcttcgtc cgctcgcta atcatgccc aggtcgtaaa agctgaaggg gaggatcccc 300
atccaacccc atacttggtc gtatctctcg aacaaaagcg tatcgatcaa accaaaccct 360
acgatgcgaa gaaggcctgc tgggtacccg acgagaagga aggcttcgtt ctcggtgaaa 420
ttaaggccac caagggggat ctgctcaccg tcggcttgcc ggtggagaga ccaaagattt 480
caagaaggnc tcgtcgccaa gtgaccccc aattgaaaaa tgcgaggatt gtcaaatttg 540
ctacctnac 549
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<210> 282
<211> 549
<212> DNA
<213> Ctenocephalides felis
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<220>
<221> misc_feature
<222> (504)..(504)
<223> n = unknown at position 504
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atctatgcaa gaagaaatgg aacgatcaca ggctaattta atagaggcac aagatatgat 180
cagacgttta gaggagcaac tgaaacaatt gcaagcatct aaagaagaat tagagcaaag 240
gcagaatgaa ttgcaggcaa tgatgacccg ccttgaggaa acaaagaaca tggaagccgc 300
agagcgtgca aaattagaag aagaaattcg tgcaaaacaa gatgaagtgc aacgcattca 360
agaagaagtt gaagctaaag atacagagac taggagatta cagaatgaag ttgatgaagc 420
caggcgtaaa aaagatgaag tagccgctgc ttgttggtg cacaatcaact cctcacatcc 480
catgtgatgg aagaaatgac accnagagtg tgagttccaa acggagtgga gatatagctg 540
cttaatctg 549
```

```
<210> 283
<211> 550
<212> DNA
<213> Ctenocephalides felis
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```
<220>
<221> misc_feature
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&lt;222&gt; (496)..(496)

&lt;223&gt; n = unknown at position 496

&lt;400&gt; 283

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aagccgcatt tgttattgag aaatatatgc taaaatatat tgtctcagaa ttaatataat      60
gtgctgagtt tgcattaata ttgaaacggt ttattcattc tgaggcatct atataaaata      120
aataaatatg aaagcaattt tgataacatt gatagtcgcc gcggctgtgt attccgtaag      180
gcctgaggtt ttcctggaag aaaacttcgt agacgatacg tggacaaaata catgggttta      240
tagtgaacac cctggcaaag aattcggcaa attcgtgcac actgccggaa agttctataa      300
cgatgccgaa gcagacaaag gtttgcaaac aagtcaagat gctaggttct acgctctatc      360
tcataagttc aaacctttct caaataaaga caagacatta gttgtcaatt ttctgttaaa      420
catgaacaaa acattgactg tggaggtggt acttgaaggt gtcgattgaa gttgaatcaa      480
aaggacatgc atggtnaagt cctatgaaat atgtttggcc tgcatttggg ccaggaacta      540
aaaggtcggt                                     550

```

&lt;210&gt; 284

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 284

```

catccgttca ccaattggtg taggatccgt agctaaagtg ttcggaggac gtaaacgtaa      60
tggtgtatct ctttcacatt tccacaaatc atcaggaggt attgcacgca aagcattgca      120
agctttggaa tctttgaaat tggttgagaa acaccagat ggtggccgca agcttaccgt      180
tcaggaaga cgtgatttag atcgtatcgc tgcccaagtt agggctaaac aaagggcaag      240
aaaagatacc actggtccta ttgttttgta aaacatgttt atatataaat aaaaaataa      300
gatctaaaaa aaaaaaaaaa aaaaaaaaaa                                     328

```

&lt;210&gt; 285

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (535)..(535)

&lt;223&gt; n = unknown at position 535

&lt;400&gt; 285

```

cagcgatttc ctttttattc cggctaagtg agaaaacaca aacacaacca aaatggacgc      60
gatcaagaag aaaatgcaag cgatgaagct ggaaaaggag aacgcaatgg accgcgctct      120

```



```

caactgcgaa caggaagcta aggatgccaa cctgcgcgct gagaaggccg aggaagagggc 180
ccgttctctg caaaagaaga tccaatcaat tgagaacgat cttgaccaa ctcaagagtc 240
attgatgcaa gtcaatggaa aactcgaaga gaaagacaag gctctccaaa atgccgaatc 300
tgaagtcgct gccttgaacc gacgcattca actcttgga gaagatttgg aacgttcaga 360
agaacgtctt gccaccgcac tgctaaattg gctgaagcct cacaggctgc tgatgaatca 420
gaacgccccg taaggtgctt gagaaccgtt ccctcgcgag gaagagcgca tggaccactt 480
gagaccaact taaagaagcg cgttctggct gaggaggccg ccaagaaata cgatnggttg 540
ccgtaaattg 550

```

```

<210> 286
<211> 457
<212> DNA
<213> Ctenocephalides felis

```

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<220>
<221> misc_feature
<222> (446)..(446)
<223> n = unknown at position 446

```

```

<400> 286
gcaaacaaca aggtccgctg atgcaagatc cacacgattg tcacgcatat tacacatgtc 60
tagaaattgg atcattaccg aaacatttta attgtaataa aggtgcttat ttcaatacag 120
tcaaattaaa atgcgtgaaa ggaaattgag aaaatagcac agaaattcct cttcctgagc 180
ttccagacat ttgcgatgaa gtaggacctt tgggtgaaga tccaaacgat tgccgcaagt 240
attattcatg cgtcacgatt ggaaaagaac ctgaacattt tacgtgcaat aaaggggctg 300
attttgatcg agaaagatta cgggtgtgtca gaggatcttg ttaacaaata ttgttatata 360
acaaagttca atctttaatt attatttaga agaatttgaa aatgtatatt taatgttttt 420
taataaaaata gtttattggc aatttnaaaa aaaaaaa 457

```

```

<210> 287
<211> 256
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 287
attgtaccac caacaataaa tttagaaaat ctaactgaag atatggactt aaattatgtg 60
cctaataaat cttgtgattg gaagagttgt gataagagaa tagctttgaa aaatgctttt 120
ggttttggag gtacaaatgc atcattatgt ataggcgaat atagagagat ataatcacat 180

```

aatgcttata tgctgatttt aaaaagagat aatataatag ttttctaata ctaataaata 240

aaatatattt taatat 256

<210> 288  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (530)..(530)  
 <223> n = unknown at position 530

<400> 288  
 cgacaacctg acgcccttga aagacaacga aggcattcta gtgccattgg tgcaatcgtg 60  
 cgatgacgac catcctgcta ttttccattc gatggcacct tttccattgt tacgtaaagt 120  
 tcttgtacgg ttattgcatt ctgttgactt gatactggag aaggctaacg aaatttacct 180  
 taaccagtat cttcagaagg ccaaataatta ttggggtaac tttgaaatgt tgacgtcagt 240  
 aatttcccca aaacgtttga cgattttgca cgtcgattac aacggcaaaa ttttgggatc 300  
 gatgcattcg atgacaggag acgtcaaagg catttcgcat gccttacctc attccgatgg 360  
 atatctgtat ttggggtcac catttaataa ctatttggca cgagtaccta tgcccaaatac 420  
 ttcgaagatc agagtgtcta aggtcactta tgagggcgag ggattgatgt tgctgggggaa 480  
 aaggtaaagg agactcctaa ggaaagaagt acctaaggaa agaggtgccn aggaaaggaa 540  
 gccctaggtg 550

<210> 289  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (512)..(512)  
 <223> n = unknown at position 512

<220>  
 <221> misc\_feature  
 <222> (539)..(539)  
 <223> n = unknown at position 539

<220>  
 <221> misc\_feature  
 <222> (546)..(546)  
 <223> n = unknown at position 546

```

<400> 289
aatcgaccca gttcttatat ttgttaaacc gtttggttaa attcgcaaaa ataaaaat 60
gcaaaaaatg cctttaaaaa tcaaaaaagt gttagtttagc gacgctgtcg atgcagcatg 120
tgtggaatta ctaaagcaac atggcgtcga agtgaaatgt cgaacaggaa tgacgcctgc 180
ggagcttctg caggagatcc ctgctcatga cggattgatt gttcgctccg atacgaaagt 240
aacacgcgaa gtaatagctg cagctactaa tctcaagggtg gtcggcagag ccggagccgg 300
cgtggataac atcgatatac ctgcagcaag cgaacgaaat atcatcgtgc ttaatacacc 360
agggggtaat tcaatcagcg cctgcgaact aacgtgtacg ttgatggggt gtctcgcacg 420
tcatgtagtg cccgccggtg cgtctatggt agctggacgt gggatagaaa aatctattca 480
ggaaatgaat tgatggtaaa cctgccgttt angtttgga ggatggattg aagttgcang 540
cgtatnaagt 550

```

```

<210> 290
<211> 550
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (30)..(30)
<223> n = unknown at position 30

```

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<220>
<221> misc_feature
<222> (36)..(36)
<223> n = unknown at position 36

```

```

<400> 290
attaattgga gacgaccaa tttttaatgn aattgnaaca gctcatgcat ttattataat 60
ttttttcata gttatgcaa ttttaattgg gggttttgga aattgattaa tccattaat 120
attaggagct ccagatatag cctttccacg aataaataat ataagatttt gacttttacc 180
tccttcatta attttattac tttcaagagc tatggtagaa agaggagctg gaacaggatg 240
aacagtttat cctccccctt cttcagtaat cgctcacagt ggatctagag tagatttaac 300
tatttttaga cttcatatag caggatattc ttcaatctta ggagccatta attttatttc 360
tacttgttta aatatacgac ctaaaggaat atcttttagac cgaataccac tttttgtatg 420
atcagttttt attactgctt tcttattact tttatcttta ccagtattag caggggctat 480
tcaatattat taacagatcg aaatttaata catcattctt tgcccttctg gtggaggaga 540
cccaatttat 550

```

<210> 291  
 <211> 362  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (95)..(95)  
 <223> n = unknown at position 95

<220>  
 <221> misc\_feature  
 <222> (179)..(179)  
 <223> n = unknown at position 179

<220>  
 <221> misc\_feature  
 <222> (292)..(292)  
 <223> n = unknown at position 292

<400> 291  
 acaagctaaa gatgccaaact tgagagcaga aaaggtaaac gaggagggtc gtgaactgat 60  
 caagaaactc ggacaagtcg aagccgattt ggcntgaac aagaacaact tggagcaagc 120  
 caataaggat ctggaagaga aagaaaagac cttgaccgcc accgagtctg aagtggctnc 180  
 actcaacagg aaggtgcaac aaattgaaga agatttggaa aaatctgaag aacgtgccgg 240  
 aagcgctccc caaattgttg gagccacaca agctgccgat gaaaccaccg tntgtccaag 300  
 tattggagaa ccgctccaac aagatgaaga gcgatggccc attgaccacc aattgaagga 360  
 gc 362

<210> 292  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 292  
 attaattcct atgatggccg gtacattaac taaactcagt ggaaatatta aatacgtgaa 60  
 aaaacagaat aataatattt ttagacaatt tttagacaaca aagaattatg ccacaagggc 120  
 ccaagcagct aagccagtgg tcgaaatgga tgggtgacgag atgactagga tcattctgggc 180  
 taaaattaaa gagcaactca tttttccata tgttaaggta gaatgtttgt attatgattt 240  
 gggtttgcca catagagatg ccaccgatga taaagtaact gtggatgccg ctcaagcaat 300  
 tttaaaacac aatgtcggca taaaatgtgc gacaattacc cctgatgagg caagagtagc 360  
 tgaattttaa ttaagaaga tgtggctcag tccaaatgga accattcgta atatactggg 420  
 cggaacagtg ttccgtgaac ccattctttg taaaatatac ctcgctctga cctggatggc 480

taaacctatt ataatagccg cacgcgcatg gtgatcaata taaagctaag atttgagtaa 540

atgacctgg 549

<210> 293

<211> 549

<212> DNA

<213> Ctenocephalides felis

<400> 293

tataaattgt atatatgagc aatgaatcaa tttttttaaa catttttgatt ttcctggggcc 60

ctgtagcaaa cttgatattt gacaactgaa ccatcaaagc tatatataaa tattaatcga 120

atttctataa atcttaaata catattttga attaaagata gtaaattaac aatggcagcg 180

ggggctgagc ctttgtcact agctaaagat gtcaaaagag cctgcgagct ccttgataaa 240

ttacaaatga ctggagaaat accagccaca aaaatagctg cttacaaaa agttttacaa 300

tccgattttt ttactgccgt tcgcgaagtt tatgaacata tttatgaaac agtagatatt 360

caaggttctg aagacataag agcatcagca acagcaaagg ctactgttgc agcttttgca 420

gccagtgagg ccatgccatc cacgagttgt tgaattccta agacagatga aggcttaggg 480

tttaatgtat ggggtgaaaa gaacaaaatt ctccatatca tatcaagaat atccagtgg 540

gagctgtcg 549

<210> 294

<211> 549

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (474)..(474)

<223> n = unknown at position 474

<220>

<221> misc\_feature

<222> (485)..(485)

<223> n = unknown at position 485

<220>

<221> misc\_feature

<222> (515)..(515)

<223> n = unknown at position 515

<220>

<221> misc\_feature

<222> (517)..(517)

<223> n = unknown at position 517

```

<220>
<221> misc_feature
<222> (532)..(532)
<223> n = unknown at position 532

<400> 294
gcttatgttt gtttttattt tgacgttgct aaaatttttag ctttaatggt tgttttcttg      60
tgataaatta gtttttattt aaaggctagc gcataataat aatgatgcat ctgagcgctg      120
acatatctag tgcacttcag caacttgaga gcatcaagac agcaatagat gactcccatg      180
atccaaaact tcagctcagt actaatgaag atttggatat gataataagc ctattgcaag      240
atccagtttt tcgaagcatt gttactactc aagattcact aggtgaattg aattcccaaa      300
taacacaaca tccatcaata ttaccaggag attttgatat aactacttca ggtgatctaa      360
ttctgcggtg ccccttctc ttgatttata tgataatgag tacactgatg acaaagagt      420
accctctgac aattaagtcc aggtagccct cagagggttag gtatagcatc ggtnggggca      480
gtcangggaa cattacattc atgaagggat caatntngca atgaggcaac cntgatggat      540
attcccaca                                         549

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<210> 295
<211> 512
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (30)..(30)
<223> n = unknown at position 30

<400> 295
atcagactga acgagccttc cagaagcagn tgggtgtaaa cctcaaccgc aagatcggtt      60
taaaaaagaa atccttacgt cttcacagga atgtaggatt aggattcaaa acaccccgctg      120
aggctattga aggttcttac atcgacaaaa aatgccatt cacaggaaat gtatctatca      180
gagggcggtat tttgacaggt gttgtacaaa aaatgaaaat gcagcgact attgtcattc      240
gacgggatta tctgcattat attaggaagt acaacagatt tgaaaagaga catcgcaata      300
tgtctgtgca cttttcacca tgcttcaggg atgttgaaat tggatgatgt gtgaccattg      360
gtgaatgcag acccctttca aagaccgttc gtttcaatgt tctcaaagtg acaaaaggaa      420
caggttctaa aaagagcttc aagaaatttt agtaatcttt attacaataa acatttgttc      480
ttgtaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                         512

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```

<210> 296

```

<211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (514)..(514)  
 <223> n = unknown at position 514

<400> 296  
 ggctcttggt cgaagaggct gttaacgatg ataacagtgt ggtggctttg tctcaagcta 60  
 aaatggacga actgcagcta ttcagaggcg atacagtatt attaaaaggc aaacgcagga 120  
 aggagacagt ttgcatcggt ctctctgatg atacttgccc cgatgaaaaa atccgtatga 180  
 acagagttgt acgtaacaac ttgcgtgtcc gcttgtctga tgttgtttct gtgcagcctt 240  
 gtccagacgt gaagtatgga aagcgaattc atgtgctgcc cattgatgat tctgttgaag 300  
 gcctaacagg aaatctgttc gaggtctacc tcaagcccta cttcttagaa gcctatcggc 360  
 caattcaciaa ggacgacaca tttattgtcc gtggcggtat gagagcaata gaattcaaag 420  
 tagtcgaaac agatctgctt cttattgatc gtggtcctgc acagtcattc attgcgaagg 480  
 ggatccaatc aagcgtgagg aagagaagag ctcnatgctg cggtatgatg atattgtggt 540  
 gagaaacat 549

<210> 297  
 <211> 296  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (102)..(102)  
 <223> n = unknown at position 102

<220>  
 <221> misc\_feature  
 <222> (121)..(121)  
 <223> n = unknown at position 121

<400> 297  
 cctaataaat taggaggagt tattgcctta ctattatcaa ttttaattat tattatttta 60  
 cctattaata ataaaatatt tttaagaaat tcatttttatt tnttaaataa aattttattt 120  
 ngatttttca tttatatattt aattttacta acatgaattg gagctcgcca gttgaagacc 180  
 ttatattatt caggacaaat tcttacaatt ctatactttt cttattattt aattaatcca 240  
 tatatttatt ataaatgaga taatttatta ttataaaaaa aaaaaaaaaa aaaaaa 296

<210> 298  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (505)..(505)  
 <223> n = unknown at position 505

<220>  
 <221> misc\_feature  
 <222> (535)..(535)  
 <223> n = unknown at position 535

<400> 298  
 ggaacatttta ttcgtgaagc tagcactagt catgcattgt ttggtaaaca tattctcact 60  
 gtagacatgt tcaacaaaga acaattaaat gatattttca atttggctga aaatatcaaa 120  
 gctcgcgttg tcaaagatcg accagtagat gaaattttgc gcggtaaggt aatggcttct 180  
 atcttttatg aagtgagtac tcgtaccagc tgcagctttg ctgctgcaat gcagaggctc 240  
 ggaggccgag tgatccatat agatgaaact agctcatctg ctaagaaagg cgaaactcta 300  
 gaagattctg tttctgtcat ggctgggttac tcggatgtaa ttgtacttcg ccatccagaa 360  
 ccaggagcag tagctaaagt ggctgcgcac tgtagaaagc cattaataaa tgctggcgat 420  
 ggagttggcg aacatccaac tcagcgtgct tgatatatctt actattcgtg aagaaatggt 480  
 ccgttatggt tgactatact atggncggac ttgaaaatgc gtctgacctc attgntcgtt 540  
 ggtgcgtat 549

<210> 299  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (540)..(540)  
 <223> n = unknown at position 540

<400> 299  
 cttcaaacct ttaatgtttt gaaacacaaa ctgttcataa tcaattgtag ttttgtgata 60  
 aaactcaata tgatcgtata aacctgtgta cctagaaaaa acagaggagc agggaggag 120  
 tggacatctt attctggatt tccttgatgg tgtaacctata aaattttcct tagtactgat 180  
 tggggaactg ggaatgggag gcgtgtgaat ttgaacttta gtagaggaag tacaaggatg 240



FC-8-C3.ST25.txt

tggcgataaa cttacgtggg aatgtttgtg aagacgatct gatatggaag gagcagaggt 300  
 aaaagatgag caagcagaaa gtggatatct tagtttctct tttgttgatg gtgtacctgt 360  
 aaaattttcc ttagtactga ttggggaact gggaatggga ggctgtgaa tttgaacttt 420  
 agtagaggaa gtcaaggatg tggcgataaa cttacgtggg aatgttgtga agacgatctg 480  
 tatggaagga gcagagtaaa agatagcagc agaagtggat atctagttct ctttgtgtgn 540  
 gtctctgtaa 549

<210> 300  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (537)..(537)  
 <223> n = unknown at position 537

<400> 300  
 cttaagtgtt cagaatgcca caatcaatgc atgtaaatgg ctatgccaac ggccacagcg 60  
 gttccttcga tatggaggat ggatctgttt tcttgtttac ttcggaatct gttggcgaag 120  
 gacatccaga taaaatgtgt gatcagatca gtgatgctgt attagatgct cacttgaagc 180  
 aagatccaaa tgctaaagtt gcttgtgaaa ctgttactaa aactggaatg gttctcctct 240  
 gtggagaaat aacttccaat gctgtagttg attatcaaaa agtgggtcgt gacacgggtga 300  
 aacacattgg ttatgatgat tcatctaaag ggtttgactg gcgtaccctt aatcttctgg 360  
 ttgcattgga acagcagagt ccagacattg cgggtggtgt acacatgaat aggcaagaac 420  
 atgacatagg tgctggggat caggtttcga ctataggacc tgcaatgtct acttgcattg 480  
 atctcagcac ctatatagca gctggagtca tgacatcgaa ggatgaaaaa tgggcangaa 540  
 acagggtta 549

<210> 301  
 <211> 475  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (87)..(87)  
 <223> n = unknown at position 87

<220>  
 <221> misc\_feature

<222> (95)..(95)  
 <223> n = unknown at position 95

<220>  
 <221> misc\_feature  
 <222> (132)..(132)  
 <223> n = unknown at position 132

<220>  
 <221> misc\_feature  
 <222> (181)..(181)  
 <223> n = unknown at position 181

<400> 301  
 gttttggcaa tgtcgccacg taagttttcc gggccgagac atggctccat ggggttctac 60  
 cccaagaaga ggtcccagcg tcaccnggt aaagnaagg cttccctaa agatgaccct 120  
 agcaaaccag tncatttaac tgcctttatt gggtacaaag ctggtatgac ccacgtgctt 180  
 ngtgaggcag acagacctgg atcaaagatc aacaagaaag aaattgttga agccgtaact 240  
 attttggaac caccacccat ggtcgtgggt ggagctgtcg gttatattga aactccacat 300  
 ggtctacggg cattgggttac tgtttgggct gaacatttgt cagaggaatg ccgccgtaga 360  
 ttttacaaaa actggtataa gagcaagaag aaggctttct ctaagtcctc aagaaatggc 420  
 aagatgagct tggtcgcaaa tcaattgaaa gggattgaag aaaatggcaa atctg 475

<210> 302  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 302  
 gtgtattcat attaaaaact gctgaatcca cgtgtgtata atgtcagacg cagtgggtggc 60  
 aggaagtggc ggacaacctt attctggaca aatcaagaaa gaattatcgg aaggcattat 120  
 ataccagacc gcagaaagtc caggatcaac atgctgcaca gcgctgtatt ccgatgtaga 180  
 agtgataaag atggaaatct cggatcattt tgaagttgtt gacccgaaat ctctacagat 240  
 agcaaatagt ccgggtagtc cagatagaca attctgcagc tcaaccacgg cgtcaattgg 300  
 ggaaattacg acaaacgatg atattaaaga agacagtcca aggcgtcttt gccttgtttg 360  
 tggatgatata gcctctggat tccattacgg cgttgcttca tgtgaggcat gcaaagcatt 420  
 ttttaagaga acaatacagg gtaacataga gtataattgt ccggcagttg gagattgtga 480  
 aatcaataaaa cgaaggcaaa agcatgtcaa gcctgtcgat tcaaaaatgt tagcattgga 540  
 tgtaaaaga 549

<210> 303

<211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (541)..(541)  
 <223> n = unknown at position 541

<400> 303  
 gccgtcaaaa atggctggag tattatttcg tgttaatttg gctaaaacac aattgggcat 60  
 aatcagccca gtttttacaa ttagacataa cagcggtgga ccaccaccac caggcactcc 120  
 acctccaaa acacgtacta aatttggtcc tcttaaagat gaagacagaa tttttacaaa 180  
 tctttatgga cgtcacgatt ggagattgaa aggatctttg aaaagaggag attggtataa 240  
 aactaaagaa atcattctta agggagctga ttggatcata aatgaaatta aaacttctgg 300  
 actcagaggt cgtggagggtg ctggttttcc ttcaggtttg aaatggtctt tcatgaacaa 360  
 accaggagat ggaaggccaa aataccttgt ggttaatgct gatgaaggag agccaggaac 420  
 atgtaaagat cgtgaaataa tgcgacatga ccctcataaa ttggtggagg ctgttaattg 480  
 caggaagagc atggcgctcg actgctcatt acatagagga gaatttatat gaacatcaat 540  
 ntcagttgc 549

<210> 304  
 <211> 406  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 304  
 gttaatttaa aataacaaaa tgaaaggaac attattaata ttatcatgtc ttgtgatcat 60  
 gataagtgcc gaatatgctg acgtagatgt gtgccaagat ttggacgatg gaacttttct 120  
 tgctgattca aacaattgcc aaaatttctt catttgtgat ggaggccgag cttggaaaat 180  
 gtattgtcca ggatcacttt tatggaatga tcacgaagga acatgtgatt acgcacaaaa 240  
 tgtagaatgt taccaaccag aataaaacat tttaatatct gacagcgatt ttctgaaact 300  
 atatttcata ctactgttat aataaattta tcttcattgc tctcctccta taaatttatt 360  
 ccgttttaat aaaatcaata taaagacaaa aaaaaaaaaa aaaaaa 406

<210> 305  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (524)..(524)  
 <223> n = unknown at position 524

<220>  
 <221> misc\_feature  
 <222> (539)..(539)  
 <223> n = unknown at position 539

<400> 305  
 ctgataccat cgaagccagt gctgattcat gacttgggtc gtgtttatat acaaactggt 60  
 cctgatgtta agaggtgcat tcttagatta ttagaggac cagttagaca actcggcatg 120  
 gaaaatactg aattgatgaa attagttgag gcctgtgcaa agggatctga aaccttggtt 180  
 acaaggggtga tacatat tttt gaccgaaaga agtttgccta gcatggaact agtttctaga 240  
 gtctgagatc tttatcacac taaagtatct gatgtccgat tcttaatacc agtattaaat 300  
 ggtcttaata aagacgaggt tatagattct ttgccaaat tcattaaact aaatccagta 360  
 gtttttaaagg aagtttttaa taagctgctg aataatcaag caggtcctac atcatatcct 420  
 agtccagtta cacctataga gttgtttag cgtagacata atagacacaa ctagtgcaga 480  
 tttaaaattc gagtgaaagc aacaagttgt gtttagcagag aagnaattac acccagaang 540  
 atgcagagt 549

<210> 306  
 <211> 534  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown at position 4

<400> 306  
 tgangatcgg cttgtgcgcg tacagtggat acaaaattta tcccggccat ggcaaaacca 60  
 tgggtcaaat tgatggaaag acattcactt tcctcaattc aaaatgtgag gctgtcatt 120  
 taatgaagag gaaccacgt aaagtaacat ggactgtctt gtacagacgc aagcacaaga 180  
 aaggtcaaga agaagagttg actaagaaac gtactcgtcg tacacagaaa ttccaacgtg 240  
 ctatcgtagg agcttctctt aatgacatcc ttgccaagag gaacatgaaa cccgaagtac 300  
 gaaaggcaca aagagaccaa gctatcaggg ctgcaaaaga gcagaagaaa tccacgaaag 360  
 cagcaaagaa ggctgcagct ccacctaaag tgaaagcccc accaaaagct aaggccgcta 420  
 aagttagcca gaaagcacc cagggttg cggtaaacga taagtgggtg tggagattat 480

tctaattgtat tatatgaaaa ataatttgta aaatgctaaa aaaaaaaaaa aaaa 534

<210> 307

<211> 549

<212> DNA

<213> Ctenocephalides felis

<400> 307

tgaaaaacta cgatccccag aaggacaagc gtttcagcgg caccgtaaaa ttgaagcaca 60

ttccacgacc aaaaatgcaa gtatgtatgt tgggagatca acagcattgt gatgaagcta 120

aggccaacaa tgtcccatgg atggatgccg aagctctgaa aaaacttaac aagaacaaaa 180

agcttctgaa gaaactagct aaaaaatatg atgctttctt agcttctgaa tctttaatca 240

agcagatccc ccgtttgttg ggtccagggt tgaacaaggc aggtaaattc cctggtctct 300

tgtctcatca ggaatccatg gtgcagaaga ttgatgaagt taaaggaact atcaaattcc 360

agatgaagaa ggtgttgtgt ttatctgtag ctgtgggtcat gttgatatgt ctcttgacga 420

gttggccaaa acgttcactt gtcaattaac ttcttggtgt cacttttgaa gaagcattgc 480

agaatgttag gtctctcatg tcaaattcac tatgggcccc caaagatata taatacataa 540

tgatatggtt 549

<210> 308

<211> 549

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (472)..(472)

<223> n = unknown at position 472

<220>

<221> misc\_feature

<222> (524)..(524)

<223> n = unknown at position 524

<400> 308

gcaagttagg gatcttgata ttaacactac agaaagactt aaaggtgtta tggatttagt 60

atttgaaaag gctgttgatg aacctagttt ttctgtagct tatgcatata tgtgtaaaga 120

gttagctctt atccaagttc ctgctgacca aaaaaacggt caatcttcaa ctgttgaaata 180

cgtcaatttc cgtaaattgc tcttatcccg ttgtcaaaat gaatttgaga aaaatacagt 240

agatgaaacc gcaagagaag ttaaactgaa agaaattgaa gcgtgtacag accctgagaa 300

gaagaaggaa ctacagttta atttagaaga agaagagcga aagattcgtg ttaaattctgt 360

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tggaatggt agatttattg gagagttatt caaacaaggt atgttgccac aaaaattatg	420
atgcagtgcc ttaggatgct ctgcagtcaa ttgaagaaga aagcctcgag tncctggcaaa	480
ttgtgcgaca ttgccggatt tagaaattac aaaatcaaga tttnaacctc tttcttaaaaa	540
tgcaagaat	549

<210> 309  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (503)..(503)  
 <223> n = unknown at position 503

<400> 309	
atttgtattt atgatttaga tttatagtgc attaagattt gtgcttcaaa aatgttatca	60
cgtgcctcat atacttcac tgtattctta aattcgctgc agcaatttcg tttacaaagc	120
acattagtaa ttgctgaaca ttcaaagca aaattaaacc cattgactca aaatgcttta	180
acagctgcat caaaaattgg aggtgaagta acagttttta ttgctggcaa aaattgcaaa	240
ccgcttgcta atgaagttgc caaagcagcg ggtttgaaac aagtcttatt agcggaaaaat	300
gctgcatttg aaaactgttc tgctgaagcc ttgacaaaac ttgttggtgc agttcaagag	360
caatataaat ttacgcata tattggtggt gcaagttccc ttggcaaggc tgtattgcaa	420
gaatagcggc aagttagatg tttccctatt tctgaaataa ttgatgttaa agatctgaac	480
attcgtcgac aatttatgcc ggnacgcttt cagacactga ggtgaaagat ccctaaagct	540
atcttcgtg	549

<210> 310  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 310	
gcccagtgca cgaggagcat gaggaaccag atccaagaag aactgagcgc ttcgatgcaa	60
tacttgcca tgggggcgca tttctcaaga gacactgtca acaggccagg atttgctgag	120
atgtttcttca aatcggcaag cgaagagagg gaacatgcc tgaaactcat gtcttacttg	180
atgatgagag gagaactgac cgagaggctg caggacttga tcagaacacc aactgttcca	240
atcacgactt gggctgatgg tttgagtgtc ttgaaagatg ctctgaaatt ggaggcttcc	300

FC-8-C3.ST25.txt

gttaccaaga agattaaaca tgtgatcaaa gcttgcgaga acgataatgg agctaattgat	360
tatcattttgg ttgactacct gaccgggtgaa ttcttagaag agcaatactc tgggtcaacgt	420
gacctgccgg aaagatctcc accctgggca agatgatgaa ccaacaaggt gttctcggga	480
gttcttggtg acaagaaact ctgggttaaa tgaaacatac atcccatcaa atatcacagt	540
aataaaaata	549

<210> 311  
 <211> 548  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 311	
aaaaacaaaa ttatttgata cattttaatc tagaatcatc tgtgtggcta aatattattt	60
gtgtttcaat ttcgactatt tgacgaaaat agataataga aatggcacct aaagcatttg	120
gtgatgtgaa aatgcaagga caagcatata aagataaaag taaaccggct gatattcgta	180
gcagcaatat atgtgctgcg aaagctgttt ctgatgcagt acgtacaagt ttggggacca	240
ggggtatgga taagatgata caagcctcaa acgggtgaagt gacaattacc aatgatggtg	300
ccacaatttt gaaagaaatg aatgttactc atccagcagc taagatgttg gttgaattgt	360
ctcgggcgca agatattgaa gctggcgatg gcacaacatc agttgtagta gttgcagggtg	420
ctttgctgga ggctgctgaa aagttacttc acagaggact tcatccaact gcatttctga	480
tgcatttcaa agatgtgctc caaagctgtg gaaattctta cacctgtcac accaattgac	540
ttactgtc	548

<210> 312  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 312	
tgtgtattat tcgcacacgt gaaataaatc atatcggtaa acttgtaata tctattttat	60
taactaataa gcgtagtgtg tgtaataaca agtaatttct attagtagtc ataagtaatt	120
gaagagaaaa ctattttcca tataagaatt gaaagcataa aatgattctc tccgtgctga	180
aaaaatctcg catcgtgcac ttgtgttttg ccatttcatt cttcacatca ggcctgatca	240
taaacattgc acaattcata ttatacacat gtctcaagcc tttcaacaag aggctttaca	300
gaaaacttgg ttattatttg tgctacacat ttacagtca gatagtgttt ttagctgact	360
ggtggtccaa atctaactcg accttacaca tatcaaagaa agattatgaa caatgtggga	420
aggaacatgg tcttttaatt atgaatcata cgtacgaaac agattgggtat taggatggat	480

gtttacggaa aaaattggtg tcttggaatt gtaggatatg caaaaagact attcaataca 540

tccgcatta 549

<210> 313  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (529)..(529)  
 <223> n = unknown at position 529

<400> 313  
 aaaaaatatt attctaacat tatggcgag atacctgcac gaccgaaaat tttgttaact 60  
 catccggata taccgaagga agctattgac atcatgtctc ccaattgcga aataattatg 120  
 tgcaccggac gtccgtctcc atcacgacaa ggaatttttg aaaaaattgt gggagttcat 180  
 ggtttaatgt ggtgtactaa agaacgtttg gacaaagaga tattagatgc tgcaggaccc 240  
 aacattatgg ccatatctac tatgtcggct gggctggaca atgtagattt acctgaaatc 300  
 cgcaaaagaa atattccaat tggttatact gcaggagttc tgaataatgc tgttgctgat 360  
 ttaactgttg ggcttatgat agctactgct agaagatttg gagaagctag gaaacacata 420  
 gagaatggaa catggggaag cggacctgcg tgggtttttag gcagaaatgt atctgaaact 480  
 cagctggtat tgtcggctag gagaaattgg caaactgtgc aagaagatng aaagcttcaa 540  
 tatgactat 549

<210> 314  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (532)..(532)  
 <223> n = unknown at position 532

<400> 314  
 gtgggtgcagg attttagat ggtatgaatc ttggagataa caccaaggca gcagttattc 60  
 gtcttggttt aatggaaatg attcgttttg ttgatgtttt ctatccagga agtaaacttt 120  
 ctactttctt tgaatcttgc ggtgtggctg atttagttac tacatgttat ggtggtagaa 180  
 atcgtagagt ttctgaagca tttgtgaaaa caggtaaadc attgaaacaa ttagaagacg 240



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```

aatgtttaa tggtcaaaaa ttgcaaggac caataacagc agaagaagtt aattttatgc 300
tgagaaatcg tggcatgcaa gacaaatttc ctttgttcac tgctgttcat aaaatttgca 360
caggagatat ggatgtttaa gaatttctta attgtataag gagccacccg gaacacatgt 420
aagtgcctgc ttataaaa ataaatcaga tttaaaatgc ttctcagatg gtaatattag 480
taatgtcttt acatgaacat aagtgagagt tgctagttgt ttgatatttt gntcttcata 540
tagtatttg 549

```

```

<210> 315
<211> 550
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (365)..(365)
<223> n = unknown at position 365

```

```

<220>
<221> misc_feature
<222> (409)..(409)
<223> n = unknown at position 409

```

```

<220>
<221> misc_feature
<222> (427)..(427)
<223> n = unknown at position 427

```

```

<220>
<221> misc_feature
<222> (441)..(441)
<223> n = unknown at position 441

```

```

<220>
<221> misc_feature
<222> (447)..(447)
<223> n = unknown at position 447

```

```

<220>
<221> misc_feature
<222> (457)..(457)
<223> n = unknown at position 457

```

```

<220>
<221> misc_feature
<222> (543)..(543)
<223> n = unknown at position 543

```

```

<400> 315
cttgtgccgg tccgagagca ccctaaattc aactttgttg gaaaactgtt gggacctaaag 60
ggtaattcca tgaaaagatt acaagaagat actatgtgta agatggccgt cttaggtaga 120

```

FC-8-C3.ST25.txt

```

ggctcaatga aagacagaca aaaggaagaa gaacttcgta attccttaga tcccaaatat 180
gctcatttgg ctgatgatct acatgttgaa atatcggtt tgggtcctcc acagaagctc 240
acgctcgagt tgcttatgct ttggctgaag tccgtaatat ttggtccctg ataataatga 300
tacaattcgc caagaacaat gcgtgaaatg atgactgacc caatgcccg cagaagaaat 360
gagangagca cccacattag acgaggtggt tggctgtggt gcttctcgng aggaggatac 420
taatcgngca gcttcgacat ntggggnatg cttctgngtt ctaatgtgat cgggcctcac 480
ccctcctcac tcgtgtatcc tgtaactaaa tcttcattaa taacaaagtg ctgagaactt 540
gtntaaaccc 550

```

```

<210> 316
<211> 550
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (33)..(33)
<223> n = unknown at position 33

```

```

<220>
<221> misc_feature
<222> (406)..(406)
<223> n = unknown at position 406

```

```

<400> 316
tcttattcat attaattata agaacattta ttngtatttc ttcaaattct tgattaggag 60
catgaattgg attagaaata aatttattat catttatccc tataactaaat gataataaaa 120
atttactatc taatgaatct tcattaaaaat attttctagt tcaagttttt gcttcaattt 180
tattattatt ttttatttct ttgaattttt tatttaaaaa cttttttaga ataatatatt 240
ttaatgaaat ttatttaatt ttatttaaatt catccctatt tttaaaaata ggggctgccc 300
catttcactt ttgatttcct agaataatag aaggaataaa ttgaataaat aattttattt 360
taataacatg acaaaaaaatt aaccctataa ttgtgtaagt tattgnatta atataaatta 420
ttttatttaa ttcattatta agaattataa ttggagctta ggtggattaa ataatcctct 480
tacaaaaatt atacttattc tcaatacact atggctgaat aatattgttt aataaataat 540
gaataatttt 550

```

```

<210> 317
<211> 474
<212> DNA
<213> Ctenocephalides felis

```

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown at position 4

<220>  
 <221> misc\_feature  
 <222> (456)..(456)  
 <223> n = unknown at position 456

<220>  
 <221> misc\_feature  
 <222> (467)..(467)  
 <223> n = unknown at position 467

<400> 317  
 gtcncattgg tgccttccaa acccatgtgt gtcgaatcct tccaggagtt cctccattg 60  
 ggtcgttttcg ctgtgcgtga catgagacag accgttgccg tcgggtgtcat caagtctgtg 120  
 aacttcaagg atgcctccgg tggttaaggct accaaggctg ccgaaaaagc caccaaggga 180  
 aagaagtagc tagatctacc gatctgctta ctgcagatgt tcaacactgt aatgaaacac 240  
 tacttccatc gcaaagcggt tcgaagaaaa aaggcctcat tcattccttt actatatgtt 300  
 ttttgactca gctttatatt ttatatgact attttataga ataataatta ttttatgttc 360  
 tgctctatat taaaatgaat ttatattaat gtatggatat tatgtgctaa gaaagaactt 420  
 gaagagattt gcagctgatg tgtattatag tatggnataa atggaancca aagt 474

<210> 318  
 <211> 356  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 318  
 agtttgctac acacagcacg tgtaaatttt cataaaataa attaaaaatg gataaacctg 60  
 tagttcttgc tcgcgttatg aaagtcttgg gccgtacagg atcccaagga caatgtacac 120  
 aagttaaagt tgaatttatt ggtgaacaaa accgacaaat catccgaaat gtcaaaggac 180  
 cagtacgaga ggggtgatatt ttaacacttt tggaatctga acgtgaagct agaagactaa 240  
 gatagattaa ttctaaaatg tgagaggtga taccctgaac tataatatct gggttcaatt 300  
 atttgtatgg aattataaat atacgactta tcactcccaa aaaaaaaaaa aaaaaa 356

<210> 319  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (537)..(537)  
 <223> n = unknown at position 537

<400> 319  
 aaataatctc tgaaaatggt gaagggcggt gtaggtcttg ttactggagg tgcttctggt 60  
 ttgggaaagg cactgtaga gcgaattgtg caacaagggt gccgagttgt tttatgtgat 120  
 ttacctaat caagtggatc tcaagtagca aaagatattg gagataattg tttatatgca 180  
 ccagttgatg tcacatctga aaaagatggt gaggaagcaa tagcattaac taaagaaaaa 240  
 tttggtcgtc ttgatgttgc tgtaaactgt gctggtatcg gtgtagcatt taaaacatat 300  
 aatttcaata agcagttgcc tcataaatta gaggatttca caaaagtttt aatggttaat 360  
 actgttgga ccttcaatgt aattcgattg ctgtggattg atgggagtaa atgaacctaa 420  
 taaggatggt caaccaggag tgattgtaac acacaagtgt gctgcttatg atggcagatg 480  
 ggacaagctc ttattctgcg tccaagggtc ttgtggaatg cactgctttt gctaganatt 540  
 accaggcaag 550

<210> 320  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 320  
 gattcagctt tgcatagaat tgtagatgca actgatgcaa ttgttagcac tgcatattcc 60  
 cataaaaagaa catttattat ggaagtaatg ggacgaaact gcggatatatt agctgttggt 120  
 gcaggcttgt gtgttgaagc tgattttata tttgcgcccg aagatcctcc agatgccaac 180  
 tggccaagtg ttttatgccc actattaagt caggaacgat tagctggaag aaggcaaaat 240  
 attatcatgg tatcagaagg ggcaattgat agaaatggag aacctataac agcagaaaaa 300  
 attaaagaag tcattattgc aggtttaaat caggatacaa gaattacagt gcttgccatg 360  
 tacagagagg tggaagtcct tctgcttttg atcgattact gggatgtcgc atgggggcag 420  
 aagcagtatt agcccttatg gaagctcatg atgagtctga ccttgtgttg tgaccttgcc 480  
 cgaaccaaca gtcgtcttca atgatggaat gtgttctcac caaactgtac ttacgcttgg 540  
 aaaataaaat 550

<210> 321  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

```

<400> 321
gtcaaacatc acaaaaatat atagctttat gtgtcacaaa tgattacact tttatcggtta      60
tgatataata caaaataaat acaatttctt acatgctatt attataattc aatattaaaa      120
catttgactt ataataaac aatgaatttc ttatatttat taatatgctc tctttgtgcg      180
gtagtaaatg ccggtgggga tacattagtt ttattagaca atcttgcaat taaagaaact      240
cattccatat tttttaaaag cttacaagat agaggttatg ttctaacatt caaattggct      300
gatgaagcca atttagtttt atctaagtat ggagaatatt tatacaagca ttttaattcta      360
ttttcacctg ctgtggaaga gtttgaggga tcattaagtg tcgaggcaat tcagaattca      420
tagatgaagg tggcaatggt ttggtagcag gaagtgaatc ctggtgatgc aattcgtgaa      480
tagctctgaa tgcggtttga ggagatgagg aaggacactg tatggacatc ttaatatgat      540
ggtctgataa                                     550

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```

<210> 322
<211> 546
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (28)..(28)
<223> n = unknown at position 28

<220>
<221> misc_feature
<222> (488)..(488)
<223> n = unknown at position 488

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```

<400> 322
tttttttttt tttttttatt tgcattgnga tagccggccg attgcattca gttctaaaat      60
gccgatcaaa agtatcaaag ctcgtcaaat tttcgactct aggggcaatc ctaccgtcga      120
agtcgattta gtgaccgaat taggattatt tagagcagcg gttccttcag gtgcttcac      180
aggagcttat gaggtctctg aattacgtga taatgataag actcaatata tgggtaaagg      240
agtatccaaa gcattgcaca atattaatca attgattgcc cccgagttaa ttaacaatc      300
ttttgagggt actcaacagg aagagatcga caaatttatg ttgaaactgg atggtactga      360
gaacaaatct aaatttggag ccaatgctat attaggagtt tcattagctg tgtgcaaagc      420
tggtgctgct aaaaagggtg ttctctgat caacatattg cagatttggc tggaaataaa      480
aaaaatgngc ttctgtcca ctttcaatgt atcaatggcg gagcatgctg gaataactgt      540
ttcaga                                     546

```

<210> 323  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (545)..(545)  
 <223> n = unknown at position 545

<400> 323  
 cagaagctca agccagagcc gaagaagtcg aggaaatcag gaggaatac agtgccagaa 60  
 tccaagaaca agaggagcac atcgagacct tgttgggtcaa gatcagcaat ctggagaaac 120  
 agaagagcag actgcaaagc gaagttgagg tcctcatcat cgatctggag aaagcaaaca 180  
 gcgctgccccg cgatttgcag aaacgttgcg agcaattgga acgtgtcaac atcgagatca 240  
 aatcacgtct tgaggagacc attcagttgt atgaaggagc ccagagagat ttgagaacca 300  
 agcaacagga gttgcagagg gtcaaccacg aattggacaa gaccagggaa cagaaagatc 360  
 agttggccag ggaaaacaag aaattgggag acgaattggg agatgctcgc aaccagttgg 420  
 ccgaatacaa cagacgtttg cacgaattgg aactcgaatt gagaagactc gagaatgagc 480  
 cgaagagttg ctgctgcac aagaggccga actgtcgcaa ggccaagaca cgttccacgt 540  
 tggcnacgat 550

<210> 324  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown at position 5

<220>  
 <221> misc\_feature  
 <222> (522)..(522)  
 <223> n = unknown at position 522

<220>  
 <221> misc\_feature  
 <222> (527)..(527)  
 <223> n = unknown at position 527

<220>  
 <221> misc\_feature  
 <222> (535)..(535)

<223> n = unknown at position 535

<400> 324

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gcaantcgca aacgagtttc agagcacagc ggctgcgcat ctgttaagct caacggctat      60
agtttttcag tattataatt tgtattaagt cgaagtaa at aacaaacatg agggaaattg      120
tgcacattca aaccggacag tgcggaaacc aaattggagc taagtctctg gagatcattt      180
ctgatgaaca tggaattgac ccaactggag cttatcttgg agatcatgaa cttcaattag      240
aacgtatcaa tgtttattac aatgaggctt ctgggtggaaa atatgttcca cgtgccattc      300
ttgtggattt ggaacctgga accatggact ccgtgcgttc tggaccatac ggtcaaattt      360
ttaggccaga caattttgtt ttcggacaaa gtgggtgctg taacaactgg gctaaggggac      420
attatactga aggtgctgaa ctagtcgact ctgtttggat gttgtgcgta aagaagctga      480
atcttgtgat tgctgcaagg ttccactacc cattcttggg angtggnctg cttgnatggg      540
acactattga                                     550

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<210> 325

<211> 550

<212> DNA

<213> Ctenocephalides felis

<400> 325

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cagcaactca tttaatattt gtggatcctg atgcgaaaaa tgaaacatgg atattacaca      60
cacatattgc agcagtagaa cgattaccgt tgagtactac aggatgcccc cttcaaattc      120
gatgcaaaac attccaatca gtaatatttc ttataagaaa agaaaacgat agccatgacg      180
tttataatac tttgttgcaa ttagcccaac ctgtttctat cgatgatctg tattgcttcc      240
agtacaccat aaataaaaat gatatgcata agagcgaagg ttggaattat tttaatttag      300
aggatgaatt taaaagaatg aatgttccaa atgatgaatg gatttacaca gatttaaattg      360
aaaattatga gctatgtgat acttatccta attgttgtat gtgcctgcta acagcacaat      420
aaatatgtta caaggaagtg caaaatttcg atccaaagga agataccggt ctacacatatt      480
acacaagaac aagcttcaat atgcagatca gcaacctttc tggttcagtg cacgatgtct      540
gagatgacaa                                     550

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<210> 326

<211> 550

<212> DNA

<213> Ctenocephalides felis

<400> 326

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aaaattttta ttttaattat tatgtgttcc tttatcattg atgcgagaag taaaagtttc      60

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gaaataaagt taagacggtg gaaaagtcct cgacttcaat tgattgaaat ggatcgaaat 120  
atgcgtatag cggtttgga agatattcaa gaaaacgaaa gctattattc ggatccatct 180  
aaacctaaac ctctccagg tctaaggac aatgatacta tagcaattta taaattttta 240  
gatactgaat tttatgctga ggttggaata ggccatcctg taaagtattt caaacttggtg 300  
gttgacactg catgggcaga aacatgggtg gcctcgaaac aatgtgggtt aaagtgtgtt 360  
ggatgttgga atcttaataa atatgactct ttggcatcat caacatttca agaaaacggt 420  
aaagaatttt cttttggctc agcaaagaac cataacaggg tcttctcaat agaaagtttt 480  
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gtttcaaaca 550

<210> 327  
<211> 542  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (539)..(539)  
<223> n = unknown at position 539

<400> 327  
agctcacaga attcagggct agctttaacc acttcgacaa gaaccgcaca ggacgtttgg 60  
cgcctgatga gttcaagtca tgcttggttt ccctcggtta ctcgataggc aaggatcgctc 120  
aaggcgattt ggacttccaa aggattttgg cagtagtcga tcccaatgga actggatacg 180  
tccacttcga tgcattctta gatttcatga cccgcgaaag tacagacacc gacactgccg 240  
agcaagtcac cgacagcttc agaatcttgg cctccgacaa gccatacatt ctgcccgatg 300  
agttacgcag agaattgccca ccagaccagg ccgaatactg cattcaacgt atgccacctt 360  
acaagggacc caatggtgta cccggtgctc tcgattacat gtccttcagc acagccttgt 420  
acggtgaaaag cgatttgtaa ggtagaataa attttcataa acattttaagc aaacatttga 480  
caagtacaca taaaggtaaa taatgaagtt atgagagtta cgatcaaaat tagcattgng 540  
ct 542

<210> 328  
<211> 542  
<212> DNA  
<213> Ctenocephalides felis

<220>



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<221> misc_feature
<222> (2)..(2)
<223> n = unknown at position 2

<400> 328
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ctgaaacgtg tcaactcctgg aaccagcgag gagatcaatg gagtcgagac tcctatgaca      120
gatggccgcg accattggtg gcatgaggaa atggacgaag ttgaaccagc atgttaccca      180
gaatggatgg ctgctgagga tccattgttc atgctttata caagcggctc cactggtaaa      240
ccgaaagggg ttctacatac tacaggtggt tatctattgt atgctgccac cacatttaaa      300
atggtttttg actacaagcc cgatgacatc tactggtgca ctgctgatgt aggatggatt      360
actggacatt cgtatgttgt ctatggacca ttagctaattg gcgccacctc cgttatgttt      420
gaagggacgc cattttatcc ggataacgat agatattggg cggtattgaa aaatacaaag      480
tgaccagttt ttacacagca ccaaccgat aagacttgat gaagttcggg aagaccagtc      540
aa                                                                                   542

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<210> 329
<211> 542
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown at position 31

<400> 329
ttgagaaact tctcaaaatt gataaaaaag ntgctgtagt aatggccatg gatatgttgt      60
tagcaggagt tgatactaca tcaaatagta cagcattttt gctgtatttc ctggctacga      120
atcaaaaatg ccaagataaa ctacgtgaag aaatcagaac aattctgcca aataaggatt      180
cacatgtaaa taacgaatca tttcaccatt tgccgtattt gagagcttgt atgaaagagt      240
cgagtagaat attgccataa attggaggca ctgtaggaa agtaccagtc gatattgttt      300
tatcaggata tcaaattccg aaggggaccg aggtggttct aagtcattct actacatcaa      360
tgaaaagcag tcaattccct gaacctgaaa aattcatgcc agaacgatgg ctgagcagcc      420
aggaatcaga aggatgtcct ttagcaaaaa atgctcatcc attttcgcac atgccttcgg      480
tttgggcctc gcactgcgtg ggaaaagatt gcagatttgg aaatggaact ttatatgaag      540
ta                                                                                   542

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<210> 330  
 <211> 539  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n = unknown at position 14

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown at position 29

<400> 330  
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 ttactataaaa tatattaggt attgtaggta ggtttatttt aataatttct catggattat 120  
 gttcttctg gataattttgt ctttctaata ttatttatga acgatcagga agacgaagaa 180  
 ttttaattaa taagggttta ataagattta taccttcaat aacattattt tgattttttat 240  
 tatgtagatc taatatagca gctcctcctt cattaaattt attaggtgaa attatattga 300  
 ttaattctat aataagttga tcaataatat taatagtatt aattataata atttcattta 360  
 taagagcaag gtatagacta tatttatttg cttatagtca acatggaata agaagaataa 420  
 gactatattc ttgtcttctg gaagggttcg agaatattta ttattatttt tacattgatt 480  
 ccattaaatt attaatTTta aaaagagatt attataatta tttataaaaa aaaaaaaaaa 539

<210> 331  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n = unknown at position 2

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown at position 32

<400> 331  
 gnctaactga agtgcgcgta aaatattaaa tngacagcta tttgttaaaa caattgtgca 60  
 ttatagaaaa acattttaagt gaaaattaat tacgtttcag cagaaatata tcttctttgt 120  
 aaatttgggg ttaataatct ttcaaaatgc agatctttgt gaaaactctc acagggaaaa 180

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ccattacttt ggaggtagaa ccttcagata ccattgaaaa cgttaaagct aagattcaag 240  
 ataaagaagg aatcccacca gatcagcaac gtttgatttt tgctggtaag caattggaag 300  
 acggcagaac tttgtctgac tacaatatcc aaaaggaatc aacattgcat ttagtattac 360  
 gtcttcgtgg aggtatgcaa atctttgtaa aaacattgac tggaaaaact attacattag 420  
 aggttgagcc ctctgatcca ttgagaatgt aaaagctaaa atccaagata aagaaggat 480  
 tccccagatc agcagcgttt gtctttgctg gcaaacaatt agaagatgga agacttgtct 540  
 ga 542

<210> 332  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n = unknown at position 3

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown at position 32

<220>  
 <221> misc\_feature  
 <222> (38)..(38)  
 <223> n = unknown at position 38

<400> 332  
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 gcttttcgat caggtgggtca agacgatcgg tctgcgcgaa gtctggtttt ttggactcca 180  
 atatactgac agcaaggggtg atttgacgtg gattaagctt tacaaaaagg tcatgaatca 240  
 agatgtcaaaa aaggaaaatc cacttcaatt caaattcaga gcgaaatttt atcctgaaga 300  
 tgtagctgaa gaacttatac aggacattac atctcgtctt ttttatcttc aggttaagaa 360  
 cgctatactg tctgatgaaa tatattgccc tcttgagaca tcggttcttc tagcatctta 420  
 tgctgtcaag cccgacatgg agattttcaa aaagaccaac actcttcttg attttggcga 480  
 acgatagact gtaccacaaa gggtaatgga tcaacacaaa atgtctaaag aagaatggga 540  
 ac 542

<210> 333

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 333

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cagacactga caaaggcaaa aatgggtcgt cgaccggcca gatgttatcg ctattgcaaa      60
aacaagccct accccaaatc tcggttctgt cgtgggtgtgc cagacgctaa aattcgtatc     120
ttcgatttgg gtaagaagaa ggcaggcgta gaagattttc cactatgtgt gcatcttgta      180
tctgatgaat atgaacaatt gagttctgag gcactggaag caggacgtat ttgctgtaac      240
aaatacctcg ttaagaattg tggtaaagat caattccaca tcagaatgag gctgcatcct      300
ttccatgtta tccgcatcaa taaaatgtta tcgtgtgctg gagctgatag gctccaaact      360
ggaatgcgtg gtgcttttgg aaaaccacaa ggtactgttg ccagagttca catcgggtcaa      420
ccaatcatgt ctgtcgttcc agtgacagat acaaggccgc tgttgtagag gctctgcgtc      480
gtgctaagtt caagttccct gcagacaaaa gatctatgtt ccaagaaatg gggattcact      540
aa                                                                                   542

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&lt;210&gt; 334

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 334

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cacaagttct attcaaccag atagaatctt acttatggat acgtttttcc aaattttggat      60
cttccatgga gagactatag ctcaatggag agctttgcca tatcaagata tgcttgagta     120
tgaaaatttc aaacaacttt tgcaagctcc agtagatgat gctcaggaaa ttttattgac      180
acgtttttcca atgcctcggt atattgatac cgagcaaggt ggatcacagg ctcgattttt     240
attatccaaa gtcaatccct cgcagacaca taacaatatg tatgcttatg gaggagacgg      300
aggagcacca gtattgactg atgatgtgtc tcttcaagta tttatggagc atctaaagaa      360
attagcagta tcttcaaatt cataaaatta tataaagaca gaaatagata taaaaatctt     420
attttatctg taatattgtg tgtcagtcct tatatttgca atatagataa gtaataaatt      480
caattgatta tgaacctaaa tacattgata tattaaaaga acatttacac taaaaaaaaa      540
aa                                                                                   542

```

&lt;210&gt; 335

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (538)..(538)  
 <223> n = unknown at position 538  
  
 <400> 335  
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 caccagcttt cagcactttc ccagagtccg ccagcgtgca agagggcgag agtgcacgt 120  
 tcttagttcg cacagaagac gaagttcttg gacttcaatg gataaaagat ggtaaacct 180  
 ttgacgagaa gagctctcgc tatcgattca caatggaggg caaaacgacc ttccgattag 240  
 agatagtatc ctgcgccagc atagacgtgg gccaatacca agccaaagcc atcggtaaga 300  
 caggagaaaac attcgctcgc ttctcagtga atgtcgcagc cgagcattga gccgaacaac 360  
 taaattaata accgatcctg cacacggctt aggccaaaaa acgagacgac tcgcgttgaa 420  
 tcgcgagata tcgtgtaaac ttaagtttat taaattatta tgtttatatg aataaattat 480  
 tagtgtgatc taagcgtgtt ttcattataa ttgccttgc cacttcgctt atatatangc 540  
 cg 542

<210> 336  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 336  
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 aacaagccct accccaaatc tcggttctgt cgtggtgtgc cagacgctaa aattcgatc 120  
 ttcgatttgg gtaagaagaa ggcaggcgta gaagattttc cactatgtgt gcatcttgta 180  
 tctgatgaat atgaacaatt gagttctgag gcaactggaag caggacgtat ttgctgtaac 240  
 aaatacctcg ttaagaattg tggtaaagat caattccaca tcagaatgag gctgcaccc 300  
 ttccatgtta tccgcatcaa taaaatgtta tcgtgtgctg gagctgatag gctccaaact 360  
 ggaatgcgtg gtgcttttgg aaaaccacaa ggtactgttg ccagagttca catcggtcaa 420  
 ccaatcatgt ctgtcgttcc agtgacagat acaaggccgc tgttgtagag gctctgcgtc 480  
 gtgctaagtt caagttccct gcagacaaaa gatctatgtt ccaagaaatg gggattcact 540  
 aa 542

<210> 337  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown at position 33

<400> 337  
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 aacaggcacc atcgagacaa ccagtctaga ccagtacgac agaatcatga acgttaacat 120  
 gagatctgtg taccatttga caatgttagc agtgcctcat ttgattgaga cgaagggaaa 180  
 tattgtgaat gtctcgagtg ttaatgggtat acgttctttt cctgggtgttc tggcttataa 240  
 tatatccaaa gcggcttttg atcagtttac aagatgcgtt gctttggaac ttgctcttaa 300  
 gcaagttcgt gttaattctg ttaatccggg ggtcattatt actgagatac ataaacgggg 360  
 gggaatggat gatgaaactt ataaaaaatt cttagaacat tgcaaaacta ctcacgcctt 420  
 aggacgtcca ggacaagtaa gtgaagtatc caatgccatt gcgtttcttg caagcgagca 480  
 cagcagcttt attactgggtg cttcgttacc ggtgatggag gcagacatgc ctgtgcccac 540  
 ga 542

<210> 338  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (31)..(31)  
 <223> n = unknown at position 31

<400> 338  
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 atgtctgaaa caatataaaa taatattttc aacgctaacg cttaaataat tccaaaaciaa 120  
 atcatgagtg actattttct tttatgttaa cctcttttacg caaagaaaat gtttataaac 180  
 ttcaaacacac gttaagggtga taaatgttta cctaataata ataataataa gtttattttg 240  
 attttgtgta taaaaacatg tcttgagggc tgctgttgaa gttttaattt gcaagtgtta 300  
 gatacaactt aataaaaaat gtctcaatga tgacaataac aaaaaattct tttacccaag 360  
 tgccctcttg atttataata tgatatacaa aatgcccccg tttagacgta aaaaatctgg 420  
 aaagtctttt ccagttaaag tttgcacttt ggacgctgag ttagaattta atttggagtg 480  
 gaaagcgaca ggcaaagatt tattcgaatt agtttgccgg acgattgggt acgagagacc 540  
 tg 542

<210> 339  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown at position 32

<400> 339  
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 ataaatatcg ctgtatttga tttacacgat ggctgcaaga ttgaattcat tgtttaaaac 120  
 agatttcaca aattacataa aacgtttaaa cagcggtcaa atacgttgct taaatttgca 180  
 agaatatcaa agtaaaactc tacttcaaaa aagtggcggt gccgttcaag ccttttagatt 240  
 attagataac accgaaaaca caagtgtctt aaatgatttc aaagtccccg aatatgttat 300  
 caaggcccaa gtttttagcag gaggtagagg caaaggccat ttgataatg gctttaaagg 360  
 tgggtgttcat ataacaaaagg accctaaaga aatattgcc aattgctaaaa atatgatggg 420  
 tcacagactt attacaaaac aaacaaaagc tgaaggataa cttgtcaaaa agttatggtg 480  
 caciaagcgt tgacatttgc gggaaacata ttatgtatca tcatggcaga gctcatatgg 540  
 cc 542

<210> 340  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 340  
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 ttggtaacag gatggaatga gcccatagtc atcggcagac acgctcatgc tgatcaatac 180  
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 aaccgaaaat tgcccttgta cctatctacc aaaaatacca ttctcaagaa atacgatggg 420  
 agatttaagg atatattcca ggaaatttat gacaagcaat acaagaaaga atatgaagct 480  
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tg

542

<210> 341  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (533)..(533)  
 <223> n = unknown at position 533

<400> 341  
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 ttaaaattgt ttgtgatggc acatgtttta taactgtttt gaaaatttcg agtcacttct 120  
 taaagttaaa atttaattaa agtcagtgtg gtggtataaa ataaattttg gcatcaaatt 180  
 aagtattgga tatcatggcg aataataatg tgataaattt tggggcagga cccgccaaac 240  
 tcccagaaga ggtgatgctt gaagtgaag aacaattggt gcattatggt gaaacaaaaa 300  
 tcagtgtaat ggaaatgagc catcgatcaa aagactacat gaaaatcaac gatgatacac 360  
 aaaatgcagt taaagaatta ttcaaatacc ggacaattca aaatactatt tctgcaagga 420  
 ggtggcacag gatgtttgca gccataccac tgaatatttt gaagactgga gttgcagatt 480  
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 at 542

<210> 342  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n = unknown at position 2

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown at position 33

<220>  
 <221> misc\_feature  
 <222> (39)..(39)  
 <223> n = unknown at position 39

<400> 342  
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gttaacggtg gcggtgaaga aggagccggc gatgcgtctc gtgaaaatgg aagcgccgaa 120
gctcctggcc gtgacgacga taggaaactc tttgttggtg gacttagttg ggaaacaact 180
gataaggaat tgcgtgaaca ctttggtgca tatggagata tcgatagcat taatgttaaa 240
actgacccca gtactggtcg atcacgagga tttgcattca tcgtgtattc atctcctgaa 300
tcattgata aagttgttgc tgtatctgaa catataatta acaacaagaa agtagatcca 360
aagaaagcca aggcccgcca tggaaaaatt tttgttggtg gtttgacgac tgaagtcagc 420
gatgatgata ttaaaaacta tttcaatcag tttgggacga tcatagaagt tgagatgcca 480
tttgacaaga cgaagaatca acggaaaagg ttctgtttat acttttgaat ctgagcaagt 540
tg 542

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<210> 343
<211> 542
<212> DNA
<213> Ctenocephalides felis

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<400> 343
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agttaagaat cgtcgatttt acatagatta tgataaaaaat acattcatga tggatgacaa 180
accatttcga tacatagcag gttcattaca ttat ttttcgg gtacatccgc aacaatggaa 240
agaccgtttg gaaaagctaa aagcagcagg tttaaatgcc gttgatacat atgttgagtg 300
gtcacttcac aat ttttgatg aaggaaaata ttggtggggc agcaacgccg atttgagca 360
atttattaaa actgcacaag aagtaggatt gtatgtaatt ttgagaccag ggccatacat 420
ttgcgctgaa cgtgattttg gaggccaacc ttattggctc ttatccaccc agaaaaagat 480
attaaaccaa ggacactgtt tcgtatatgg aagcagcacg agatggatac aagaatatta 540
aa 542

```

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<210> 344
<211> 550
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (538)..(538)
<223> n = unknown at position 538

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<400> 344

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FC-8-C3.ST25.txt

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agatttgga aaatctgaag aacgtgccgg aagcgctacc accaaattgc ttgaagccac	120
acaagctgcc gatgaaaaca accgtatgtg caaagtattg gagaacccgc tcacaacaag	180
atgaagagcg aatggaccaa ttgaccaacc aattgaagga agcacgtctc ttggctgaag	240
atgctgatgg taaatctgat gaagtatcac gcaagttggc cttcgttgaa gatgaacttg	300
aagtagctga agaccgtgtt aagggaggtg acagcaagat catggagttg gaagaagaat	360
tgaaggttgt aggaaactcc ttgaaatctt tagaagtatc cgaagaaaag gccaacaaaa	420
gagtagaaga attcaaacgc caattgaaga ctttgccgtc aaacacaagg aaccgaactc	480
gtgccgagtt cgccgaaaag accgtcaaga actgaaaagg agtcgcaggc tgaagacnat	540
tggcataaca	550

<210> 345  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown at position 33

<220>  
 <221> misc\_feature  
 <222> (539)..(539)  
 <223> n = unknown at position 539

<400> 345	
aatcgggtgta gtgcatatag gaataaaata ctngttttat tgccattaat atttgaaaaa	60
tatcattgag aaaatgtcaa tattattatg cgcgctatct tttgcttcga cgcttagcaa	120
tgaaactttg tcgaaacacc atcaagttaa gaatcgtcga ttttacatag attatgataa	180
aaatacatte atgatggatg acaaaccatt tcgatacata gcaggttcat tacattatct	240
tcgggtacat ccgcaacaat ggaaagaccg tttggaaaag ctaaaagcag caggtttaaa	300
tgccgttgat acatatgttg agtggtcact tcacaatctt gatgaaggaa aatattggtg	360
gggcagcaac gccgatttgg agcaatttat taaaactgca caagaagtag gattgtatgt	420
aattttgaga ccagggccat acatttgcgc tgaacgtgat tttggaggcc aaccttattg	480
ctcttatcac acccagaaaa agatttaaac caaggacaac tgatttcgta tatggaagn	540
cacgagattg	550

&lt;210&gt; 346

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 346

```

caagctgtca aagtctggca aatatat tttt aatttaataa tttttgtctg ttttaaataa      60
aaaatgtttc ggagagcgat ttctagtgtc actaaattgc acaaacaaac tttaggtaat      120
caaattgtgc aagtcaggaa ccatggtgga actgccatt accgctgtgc ttcacgtcct      180
tcaaaagaaa ttaaacttct cgggtgaactt actggggctt taatgtggta ctggtgcttg      240
taccatattt ggactgaacc ggatcatatt ttaggagagt ttccttatcc tgatcctagt      300
aatgggacgg atgaagagct tggatatcca gccgagtaat gatggatagt taattgatag      360
aaataattaa atattgaaat ttaatgaagt atctggattg tatatggtac tgcaatttgt      420
atatagaaag tgaataagat gtgttaaacg gtagtgaaat ggaaaaaaaa aaaaaaaaaa      480
aa                                                                                   482

```

&lt;210&gt; 347

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 347

```

gctactcatt ttacgtaacg ttttagaagt gtgtgggtgt ggtgctaatt ttagcacctg      60
agcgatcggt tttattaagt tttttttatt ttgagtaata gttttaatat attttaccaa      120
aatgttgcac cttaagtcaa tcacaaaag tgcactgaaa cataaccctt ccgaagtgtc      180
cacattgggc aaagctctgc caacggccat ccaaacgcgc tcttactccg agcaccaaat      240
tcccgatagg ctgaaggatg tcccaacaca tcctaatacca agatttttcg acatggtgga      300
gtacttcttc caccgtgcct gccagatcgt cgaatctaaa ttggtcgagg acatgaaagg      360
aagcaaaatg acagttgaag ataaaactaa gaaagtcaaa ggtattctta tgttaatgca      420
gccatgcgat cacatttttg aaattgcttt cccattgcgc agagattcag gaaactacga      480
aatgattcag ggttaccgtg ctcaacacag cacacatcga caccaccaa ggaggttccg      540
tttcaatggt                                                                                   550

```

&lt;210&gt; 348

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

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<221> misc_feature
<222> (523)..(523)
<223> n = unknown at position 523

<400> 348
gtcacttgta gcggtttgtt cgattataat atttttacga aacaatgaaa gtaatatattga      60
gaaacaaata atacaaatgt agttgatttc gtacatttta tagcaatctt cacgatggcc      120
gccggtccga tagcagaaag aaatcaagat gccactatctt atgttggtgg tttggacgat      180
aaagtctcag aaagtcttat gtgggagcta tttgttcaat ctgggcctgt tgtgaatgtc      240
catatgccaa aagatcgagt aactcaaatg catcaaggat atggatttgt tgaatttctg      300
ggagaagaag atgcagacta tgcaatcaaa attatgaaca tgataaaaact ttatggaaaa      360
ccaattaggg tcaataaagc ttcagcacat cagaaaaatc ttgatgtcgg tgccaatgtg      420
tttataggaa atctagacac agaagttgat gaaaaattat tgatgacaca tttctgtttt      480
ggagtaattc ttcaaaccg aagatatgag ggatccaacc tгнаатcaaa gggtttgcат      540
cataaatttg                                     550

<210> 349
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (547)..(547)
<223> n = unknown at position 547

<400> 349
ttaatgtcga cggaacgcct ttaacagtaa ataaagaagt atttgcатca ttggatgagc      60
ccgcaccagg agtagtacct actcctgaac ctacacctgt accgaaaccc gagcaaaaaat      120
gtaaaaaagt aaaatttagt tgcgtgaatt cgtgcagttc acccgaaatg cagtattgtc      180
cggaaatagg agcagatccg gttaaggaat cctgtagccc agatcaagtг tgcgctgatc      240
aaagtggata tctacagtgc accactaaag aaagtacagt ctgcaaagta caaggtttca      300
aatgtccgtc accatcgaga ttttatccaa atataaatga ttgtcaaagc tattattatt      360
gtgacgaaaa tagtatagga acccaatatt attgcccgcа aattttgcat atgatccgtt      420
acgtcataat tgcggcctat ggctctgggc acaaaatgct atacagttac atgtctgcca      480
gcctaaggтg cttccgtaca ttggtgataa atattgacgt cgatgtatgg ccggaagagg      540
accgtangca                                     550

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<210> 350  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 350  
 cgagtttata ttttattttt aataatttaa tttatattat tgaatgggag attattagaa 60  
 ttaattctat aataattatt tttagaatat ttttgattg aatatcttta atatttataa 120  
 gatttgtatt aataatttct tcaatagtag ttaagtatag agaaagatat ataatagaag 180  
 attttaataa aaatcgattt ttattattag tattaatatt tgtattttct ataataataa 240  
 taattattag tccaaattta attagaattt tattaggttg agatggatta ggttttagttt 300  
 cttattgttt agttatttat tatcaaaata ttaaacttta taatgctggg atattaactg 360  
 ttttaataaa tcgaattggg gatgtgcttt attaattaga atttcttgga taataaatta 420  
 tggtagttga aattatttat tttatataaa atatataata aataatttga aataatttaa 480  
 ttatattttt gatttaattt ctgcaataac taaaagagca caaatccttt tcttcttggt 540  
 accagctgca 550

<210> 351  
 <211> 358  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 351  
 tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca 60  
 aaaggttgca ttaaataatac aactagcagc agccagagtt tcaactgatg ttggcattaa 120  
 agtaggagaa gccctcagga atgtcgtgga acttcgttta aatttgggaa aatgttcttc 180  
 agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240  
 catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca 300  
 aatacataat ctaataaacc agcaagtga ctaaaaaaaaa aaaaaaaaaa aaaaaaaaa 358

<210> 352  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (412)..(412)  
 <223> n = unknown

<400> 352  
 tttttttttt ttgaacggcc caaacgattt atttttatta aaaagataca tgtaatttca 60

FC-8-C3.ST25.txt

taaagcttct atatttatat attttaaata atcagaaatt actatagtta atgacatttt	120
gtttgtgctc cttacataaa atacaatttt atacatttta atttttatac atatttttta	180
tatttaattg cacagatcat ttgtgtattt atttatattaa ttgactactt tatgataatt	240
tgaatcctaa ttagtctatt caagattggt ttcttggttt aagccttact tagcaatctc	300
acttttgcac tcttcgccgg gtggcgtggg tatgcatcgc aactccgttt tatcaaagt	360
caagccattt ggacaatcat aatgttttat ttgccatttg ttgttaacca anaaacattg	420
ataatatttt ttacaatctc ttcgatcgga aaaaacgttt tcacttttgc atgcagttct	480
gcacgagaaa gatttggttc	500

<210> 353  
 <211> 346  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 353	
tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca	60
aaaggttgca ttaaataatac aactagcagc agccagagtt tcaactgatg ttggcattaa	120
agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc	180
agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg	240
catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca	300
aatacataat ctaataaacc agcaagtga ctaaaaaaaaa aaaaaa	346

<210> 354  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 354	
cctacacaac tcagggcaat ggcagtatgt atatcttta tgatgggtcg attaggaagt	60
gttgttgga gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta	120
atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat	180
cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt	240
cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcgattacaa agaaaattca	300
gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt	360
tattagattc gatgtaagat atatgt	386

<210> 355

&lt;211&gt; 387

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 355

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cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60
gttggttgga gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta      120
atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacattttat      180
cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt      240
cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca      300
gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt      360
tattagattc cgatgtaaga tatatgt      387

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&lt;210&gt; 356

&lt;211&gt; 492

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 356

```

tgaaatgtga agacgacgtc aacgaatggg ttgacccaaa atctttctcg tgcagaactg      60
catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt      120
tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180
ataaaacgga gttgcgatgc ataccacgc caccgcgga agaatgcaa agtgagattg      240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt      420
cataactata gtaatttctg attattttaa atatataaat atagaagctt tatgaaatta      480
aaaaaaaaaa aa      492

```

&lt;210&gt; 357

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 357

```

tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcgcca aatgcatgca      60
aaaggttgca ttaaataatc aactagcagc agccagagtt tcaactgatg ttggcattaa      120
agtaggagaa gccctcagga atgtcgtgga acttcgttta aatttgggaa aatgttcttc      180
agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg      240

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## FC-8-C3.ST25.txt

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca 300

aatacataat ctaataaacc agcaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

<210> 358

<211> 372

<212> DNA

<213> Ctenocephalides felis

<400> 358

tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atcttttctcg tgcagaactg 60

catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120

tcttggttaa caacaaatgg caaataaaac attatggttg tccaaatggc ttgcactttg 180

ataaaacgga gttgcgatgc ataccacgc caccgcgga agaatgcaa agtgagattg 240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaaaaaa aaaaaaaaaa 360

aaaaaaaaaa aa 372

<210> 359

<211> 269

<212> DNA

<213> Ctenocephalides felis

<400> 359

gtgttaagtg gtatcaaaac ttggtcacc agtttatgag agaagtctta ccacaacatt 60

tccaaagcat ttgtctggtg tagcaaaaca tcgtgccac tccatgggct ttcgtagact 120

tcagatactg cttccattaa agacttgga gcactttgca cagctctaata acatcttatg 180

tagttattaa attccttttg cagtctatta gcactatctt gctgcttggg gaagttttgt 240

aatgctcat caaaaatatc atctgcggt 269

<210> 360

<211> 353

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (15)..(15)

<223> n = unknown

<400> 360

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ataaaactaa tagttaagaa aaattatttc aagttacaat ttcacacgat gcaattttcc 120



FC-8-C3.ST25.txt

acaacatcat taatttcttc caatctggat tcccatttat tcaaattgtc tgaagaacat	180
tttcccaaat ctaaacgaag ttccacgaca ttcttgaggg cttctcctac tttaatgcca	240
acatcagttg aaactctggc tgctgctagt tgtatattta atgcaacctt ttgcatgcat	300
ttggccgatt cttttcgttc cctgaaactc attcttgcag gcaatttatc agt	353

<210> 361  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 361	
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac	60
ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag	120
atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt	173

<210> 362  
 <211> 379  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 362	
tttttttttt tttttttttt tttttttttt ttatatattaa ttgcacagat catttgtgta	60
tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt	120
gttttctctgg tttaagcctt acttagcaat ctcaactttg cattcttcgc cgggtggcgt	180
gggtatgcat cgcaactccg ttttatcaaa gtgcaagcca tttggacaat cataatgttt	240
tatttgccat ttgttggttaa ccaagaaaca ttgataatat tttttacaat ctcttcgatc	300
ggaaaaaacg ttttcacttt tgcattgcag tctgcacgag aaagattttg ggtcaaacca	360
ttcgttgacg tcgttcagt	379

<210> 363  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 363	
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac	60
ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag	120
atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt	173

<210> 364  
 <211> 379  
 <212> DNA

<213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (122)..(122)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (250)..(250)  
 <223> n = unknown

<400> 364  
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 tttattanat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt 120  
 gntttctctgg ttttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt 180  
 gggtagtgcac cgcaactcgc ttttatcaaa gtgcaagcca tttggacaat cataatgttt 240  
 tatttgccan ttgttggttaa ccaagaaaca ttgataatat tttttacaat ctcttcgatc 300  
 ggaaaaaacg ttttcacttt tgcattgcagt tctgcacgac aaagattttg ggtcaaacca 360  
 ttcgttgacg tcgttcagt 379

<210> 365  
 <211> 237  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 365  
 ctgctgctgc accgggaaca ccccttgata ctggcgtatc acaaaattga gaattatgtt 60  
 ggttcaccaa ttgtttaact tctttggcaa ctgctggatc gattgtgctg gaatctaaga 120  
 acaatgtatc ttttttggca gatgccacca ttcctttgta acagtctaata actatggcgt 180  
 tgtttggcaa cattgtgacc acaaagtcgg attttttggc aacttcggca gccgagg 237

<210> 366  
 <211> 425  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (377)..(377)  
 <223> n = unknown

<400> 366  
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 tttccatcct aaaacacagc tagaaaataa cccataccat agatccattc catcaccaag 120  
 agaaacaatt cgaccactgg gtggtgtaaa gaaggacttt cctacctgaa caaattgttt 180  
 ggagagtgc tgcctaaata tgatgtcaat acattgcagg gcttcctgcg gtgtctcaat 240  
 agatgatcca ttttccatat attttgaaag ggaagtcattg tcaacataag aagcaaattt 300  
 aatagttact ttatatTTTT tttccagttc attatcaggg tttataatag aaacctctcc 360  
 ttgaagaaca tctttangaa ggggtgaaga agcatataca ttctttactc catcaaattg 420  
 tgggt 425

<210> 367  
 <211> 371  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 367  
 tgaaatgtga agacgacgtc aacgaatggg ttgacccaaa atctttctcg tgcagaactg 60  
 catgcaaaag tgaaaacgtt ttttccgacg gaagagattg taaaaaatat tatcaatgtt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccgagcga agaattgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa aaaaaaaaaa 360  
 aaaaaaaaaa a 371

<210> 368  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 368  
 cgcagatgat atttttgatg agcatttaca aaacttcacc aggcagcaaa atagtgtctaa 60  
 tagactgcaa aaggaattta ataactacat aagatgtatt agagctgtgc aaagtgtctc 120  
 caagtcttta atggaagcag tatctgaagt ctacgaaagc ccatggagtg ggcacgatgt 180  
 tttgtctacac cagacaaatg ctttggaat gttgtggcaa gacttctctc ataaactggg 240

tgaccaagtt ttgataccac ttaacacgt

269

<210> 369  
 <211> 310  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n = unknown

<400> 369  
 ncataattat aagttcaaat tattgaacta tttttatttt ggctttcctg cataaaaaata 60  
 taaataattt taagttaaag gtgataatct ttcgtaaacc catccattat ctgcttcatg 120  
 tgttaaattc aaatctattt gttcatttgg aagcaacttt cggaatttta ttctatcatg 180  
 taagcgatca ctttggcctt gccagaactc aatagatcga ggtattacta tatacccgcc 240  
 ccagtatgga cattcaatcg gttgatcatc tttgtatttt tctttcagtt cttgttcttt 300  
 atttataagt 310

<210> 370  
 <211> 491  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 370  
 tttttttttt tttttttttt ttttttttctg taaagcttct atatttatat attttaaata 60  
 atcagaaatt actatagtta atgacatttt gtttgtgtct cttacataaa atacaatttt 120  
 atacatttta atttttatac atatttttta tatttaattg cacagatcat ttgtgtattt 180  
 attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattggt 240  
 ttcttggttt aagccttact tagcaatctc acttttgcac tcttcgccgg gtggcggtggg 300  
 tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat aatgttttat 360  
 ttgccatttg ttgaaacatt gataatattt ttacaatct cttcgatcgg aaaaaacgtt 420  
 ttcacttttg catgcagttc tgcacgagaa agatttgggc aaaccattcg ttgacgtcgt 480  
 ctcacatttc a 491

<210> 371  
 <211> 212  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (61)..(61)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (184)..(184)  
 <223> n = unknown

<400> 371  
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 ngctattttta ttagcaagat atccttccag cattgatcat aaaatttaca gcgccttttc 120  
 taccgtttttt tgtccacgtc aggatttttaa tatgttgcct ggctgctgca gcaggtttta 180  
 tacnacttgc tttctctcaa gggaactggt ta 212

<210> 372  
 <211> 588  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (409)..(409)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (421)..(421)  
 <223> n = unknown

<400> 372  
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 ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattggggtt 120  
 cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaat 180  
 ctogatggtg acggacattt gaaaccttgt actttgcaga ctgtactttc tttagtgggtg 240  
 cactgtagat atccactttg atcagcgcac acttgatctg ggctacagga ttccttaacc 300  
 ggatctgctc ctatttccgg acaatactgc atttcgggtg aactgcacga attcacgcaa 360  
 ctaaatttta cttttttaca tttttgctcg ggtttcggta cagggtgtang ttcaggagta 420  
 ngctactactc ctgggtgtggg ctcatccaat gatgcaatac tcctttatatt actgttaaag 480  
 gcgttccgtc gacattaaac tcaccatcat aagcggtaac gacagataac gccacaaaac 540

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588

<210> 373  
 <211> 442  
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 <213> Ctenocephalides felis

<220>  
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 <222> (243)..(243)  
 <223> n = unknown

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 <222> (295)..(295)  
 <223> n = unknown

<220>  
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 <222> (341)..(341)  
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<220>  
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 <222> (402)..(402)  
 <223> n = unknown

<400> 373  
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 catgcaaaag tgaaaacggt ttttccgata gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccggcgga atgaatgcaa aagtgggatt 240  
 gcnaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcanattat 300  
 cataaagtag tcaattaata taataaatat acaaatgata ngtgcaatta aatataaaaa 360  
 atatgtataa aaattaaaat gtataaaatt gtattttatg ttaggagcac aaacaaaatg 420  
 tcattaacta tagtaattct ga 442

<210> 374  
 <211> 530  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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<220>  
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 <222> (447)..(447)  
 <223> n = unknown

<220>  
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 <222> (479)..(479)  
 <223> n = unknown

<220>  
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 <222> (481)..(481)  
 <223> n = unknown

<400> 374  
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 agaaattact atagttaatg acatttttgtt tgtgctcctt acataaaata caatttttata 120  
 cattttaatt tttatacata ttttttatat ttaattgcac agatcatttg tgtattttatt 180  
 atantaattg actactttat gacaatttga atcctaatta gtctattcaa gattgttttc 240  
 ctggtttaag ccttacttag caatctcact tttgcattct tcgccgggtg gcgtgggtat 300  
 gcatcgcaac tccgttttat caaagtgcaa ngccatttgg acaatcataa tgttttattt 360  
 gccatttggt gttaaccaag aaacattgat aatatgtttt tacaatctct tcgatcggaa 420  
 aaaacgtttt cacttttgca tgcagtnctg cacggagaag atttgggcac acattcgtng 480  
 ncgtcgtctt cacattcagt agctcggccg cgacacgcta agccgattta 530

<210> 375  
 <211> 387  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 375  
 cctacacaac tcagggcaat ggcagtatgt atatctttta tgatgggtcg attaggaagt 60  
 gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattaagatt cgatgtaaga tatatgt 387

<210> 376  
 <211> 417  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (160)..(160)  
 <223> n = unknown

<400> 376  
 ttgttggtatt ccatgccac tgaatccagt tgctatatat gtattattgt gatatggatg 60  
 caatcctata atgccatttt catcaaaggt attgtattcg taataaccag cccatgcact 120  
 ttttaacttta attgcttcaa aacatggaac acgatgtgcn aaatgtggcc aaacgttttg 180  
 ttcaaaataa tccatatcta catctaagtt atcgactggc ggttctttgt caggatctgg 240  
 tgaacgacca cagatatatc tgccaccta tccatctctt ctaaaatatg tatttggttg 300  
 atcgattgcc agaggtgtat ttaaacctgg aggagaatga tggtgacact caaagctata 360  
 cacgtatctt tttcttggtt ccacacgtaa aggaattgac agcaatcctt ctccagt 417

<210> 377  
 <211> 229  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 377  
 cgtgggttttg gagtatctgt tcaaggtatc atcatctacc gtgcagcata ctttggattc 60  
 tatgacaccg ctctgtggaat gttgccagac cccaagaaca cccattagt tatcagctgg 120  
 gccattgcac aagccgtcac aactgttgct ggtattgtgt catatccatt cgacactgtc 180  
 cgtaggcgta tgatgatgca gtctggacgt gcaaagtctg aaatgttgt 229

<210> 378  
 <211> 356  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 <222> (6)..(6)  
 <223> n = unknown



<220>  
 <221> misc\_feature  
 <222> (172)..(172)  
 <223> n = unknown

<220>  
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 <222> (201)..(201)  
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<220>  
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 <222> (204)..(204)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (238)..(238)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (247)..(247)  
 <223> n = unknown

<400> 378  
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 tgaatgatta aatgtaatag attaatacaa ttttagatga ttaaaattgt tctattacta 120  
 caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt antaatgtat 180  
 agattttgaa taataacata naanttatac tttttttttg atgactctaa taaaaaanat 240  
 gtntaantgg ccatgcctga tatatTTTTg ataaccttaa tgaaaaaatg tttaaatggc 300  
 catgtctgaa aagattttcta tgtgtatTTT tttgttaaca ttttattggt gaatgg 356

<210> 379  
 <211> 157  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (91)..(91)  
 <223> n = unknown

<400> 379  
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aagtatgtat agataaaaga taaagattgt naaaagtttg agaaacactg tttggatggt 120

gaaacaaaat atagaaaaca caaaagttaa aaaatat 157

<210> 380

<211> 498

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> .(486)..(486)

<223> n = unknown

<400> 380

tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca 60

aaaggttgca ttaaataac aactagcagc agccagagtt tcaactgatg ttggcattaa 120

agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcctc 180

agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca 300

aatacataat ctaataaacc agcaagtga cttttatgca ttttcatttc tgcatacaata 360

acttatcaca atttttcaat tcaataaaac tgtagtttgt gttagaacta atcattaaaa 420

taatttaggc gtaacttttg attatgttgt aaaaaagcat aaacttgttt gatagaaaca 480

ttacanaatt actatttta 498

<210> 381

<211> 498

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (453)..(453)

<223> n = unknown

<400> 381

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gcataagaat cattccactg gtccaccga tggactgcat catggcaatg tgtgctctat 120

cttcacttct ggatatttcc atcgcaatta tcaaagggtc ttgaaaaaca gatgtagatg 180

ttagtgaacc aagaaaagcc gctgttataa aaacaataaa ccaactggaa gtaaagtctg 240

taattagtct tccggtgacg attgtgatga gacttaagta aaatactggt cttcttccaa 300

tcctatctcc taattgtcca aaaataaatg tgcctatgac ttcgcccga cgtccaatag 360

caaatgtatt agttacatag agttctctat cacaaaccca gtcttgatct gacggagccg 420  
 ttgataaata ccatgttctg tcatattcat aancatgctg acaagggtatt atttgacttt 480  
 caatctattt gtctcctc 498

<210> 382  
 <211> 339  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (317)..(317)  
 <223> n = unknown

<400> 382  
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 aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt 120  
 acacatattt ttagaatgat catatacata gttagggtggg cattcgaaaa cctgaccttt 180  
 accatctttg cagaataagt atcttggtgc agtctttcgg atctgggctg atatcctaca 240  
 accgcgcatg tagtttctgc cgtcttacag ttttccaaa ggttttggatg accacatatc 300  
 atctacacaa aatggancat cggaatttga gtctctgca 339

<210> 383  
 <211> 308  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (218)..(218)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (242)..(242)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (249)..(249)  
 <223> n = unknown

<400> 383  
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 catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt 120

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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcatgac ataccacgc caccggnga agaatgcaa agtgagattg	240
cnaagtaang cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaacttata	300
ataaagta	308

<210> 384  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 384	
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ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaaatcc ttagatccag	120
atcaagtgtg cgctgatcaa agtggatata tacagtgcac cactaaagaa agt	173

<210> 385  
 <211> 390  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 385	
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tataaatgat tcgacaaata accaaattcc tcgaagacgt ctccgagagt gcgttaaagt	120
tccaacggga attctacaag gcaaaatcga aagagttcag gatgctcctt cagcagatct	180
cgaggagcag gcaggggacg atttttaaga aacaaccggc tctgtggtgt ctggtcggat	240
gtctagtagg tggtttttagt ctggccactc tcagcctggc ccgcaccgtc aagaatcacc	300
cggacgtcta cctgatccgc agccactcgg gcgaggagcg ctactggcgc cgatacacca	360
aactaatcga cgtcagcgga tcgcgcaagt	390

<210> 386  
 <211> 324  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (301)..(301)  
 <223> n = unknown

<220>  
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 <222> (304)..(304)  
 <223> n = unknown

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<400> 386  
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 aaaggttgca ttaaataatac aactagcagc agccagagtt tcaactgatg ttggcattaa 120  
 agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc 180  
 agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240  
 catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca 300  
 natncataat ctaataaacc atca 324

<210> 387  
 <211> 384  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (254)..(254)  
 <223> n = unknown

<400> 387  
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 atgacatatt acaaaatgaa gataccgaat cttccacgtt taaatcgtct cctgaacttc 120  
 gaaaaagctc ttcaaaaagc aataactcat ccattaaatc aattagaagt agttcaatat 180  
 cttccactga atctagctta ctacgtgacg gagcgctgaa agattttccc gatacctgtg 240  
 aaactaaaaa tganatcgat atcaaaaatg aagaattcaa agacaacgat gataaagctc 300  
 actgtcatga caatattcaa atagttaatc ctgcaggact ggtgaattct caatgtgatg 360  
 attgttataa acccgacact gata 384

<210> 388  
 <211> 118  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 388  
 catcactgag aagaactctt cggctacgga atatcttcat tggaggcgcg ttgttggtgc 60  
 acgcagcatt aacaaggttc ttgcaattca gcataatgac cagaagaaaa atacaggt 118

<210> 389  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>

<221> misc\_feature  
 <222> (357)..(357)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (363)..(363)  
 <223> n = unknown

<400> 389  
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 gtgttggatt atgtcttttag tgaccttaaa ttcttcctcg ggatcccaaa ttactaaatc 120  
 agcatccaag ctttctttga tttgtccttt tatgccatcc agtccagtta atcgagcggc 180  
 cgccccgggca ggtacttgag ttccccatcc aatcaatgtt actgcatcac ctttcttgat 240  
 aatatcagct tttcccaaag gaactgtgaa atcatcgaca ggaacttctt ctacagctgc 300  
 tctgtaaagc gtttttgggt ccagtagcaa acatggatct ttttctctga tcatggntaa 360  
 tanaagacct ttggccatat ttggacctct tggatatgca atcttcaatc ctgggagtat 420  
 gtgcaaaata tgcctcaagg ctttggggaa tgataacaag ccccggtgtcc gactgccata 480  
 caaggtgctc gcaactgtt 498

<210> 390  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (393)..(393)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (399)..(399)  
 <223> n = unknown

<400> 390  
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 attttgtggt ttgtggtcca tattttaatt tgctacttaa catattctat gattatggat 120  
 ttattcaaaa ttaatttata caaacagctt ataaaattgt atttatcttt tatccattca 180  
 acaataaaat gttaacaaaa aaatacacat agaaatcttt tcagacatgg ccatttaaac 240  
 attttttcat taaggttatc aaaaatatat caggcatggc catttataca ttttttttat 300  
 tagagtcata aaaaaaatag tataatttcc atgttattat tcaaaatcta tacattaata 360  
 aggatgttag aagtttgttc ggttaatttt cangcagang ttgca 405

<210> 391  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (67)..(67)  
 <223> n = unknown

<220>  
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 <222> (76)..(76)  
 <223> n = unknown

<220>  
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 <222> (91)..(91)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (96)..(96)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (148)..(148)  
 <223> n = unknown

<400> 391  
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 catgcanaag tgaaancgtt ttttccgatac naaganattg taaaacatat tatcaatgtt 120  
 tcttggttaa caacaaatgg caaataanac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccac 208

<210> 392  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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 gcatgcanaa gtgaaaacgt tttttccgat cgaagagatt gtaaaaaata ttatcaatgt 120  
 ttcntggtta acaacaaatg gcaaataaaa cattatgntt gtccaaatgg cttgcacttt 180  
 ganaaaacgg agttgcgatg catacccacg ccacccggcg aagaatgcaa aagtgagatt 240  
 gctaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat 300  
 cataaagtng tcaattaata taataaatac acaantgatc tgtgcaatta aatatanaa 359

<210> 393  
 <211> 380  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (370)..(370)  
 <223> n = unknown

<220>  
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<400> 393  
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 tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaattgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa ataaaaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa 380

<210> 394  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 394  
 cgcagatgat atttttgatg agcatttaca aaacttcacc aggcagcaaa atagtgtctaa 60  
 tagactgcaa aaggaattta ataactacat aagatgtatt agagctgtgc aaagtgtctc 120  
 caagtcttta atggaagcag tatctgaagt ctacgaaagc ccatggagtg ggcacgatgt 180  
 tttgctacac cagacaaatg ctttggaat gttgtggcaa gacttctctc ataaactggg 240  
 tgaccaagtt ttgataccac ttaacacgt 269

<210> 395  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 395  
 tttcttttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac 60  
 aggattcctt aaccggatct gctcctatct ccggacaata ctgcatttcg ggtgaactgc 120  
 acgaattcac gcaactaaat tttacttttt tacatttttg ctcggttttc ggt 173

<210> 396  
 <211> 237  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>

<221> misc\_feature  
 <222> (45)..(45)  
 <223> n = unknown

<220>  
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 <222> (63)..(63)  
 <223> n = unknown

<400> 396  
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 ggntcaccaa ttgtttaact tctttggcaa ctgctggatc gattgtgctg gaatctaaga 120  
 acaatgtatc ttttttgga gatgccacca ttcctttgta acagtctaata actatggcgt 180  
 tgtttggcaa cattgtgacc acaaagtcgg attttttggc aacttcggca gccgagg 237

<210> 397  
 <211> 229  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 397  
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 tatgacaccg ctctgtgaat gttgccagac cccaagaaca cccattagt tatcagctgg 120  
 gccattgcac aagccgtcac aactgttgct ggtattgtgt catatccatt cgacactgtc 180  
 cgtaggcgta tgatgatgca gtctggacgt gcaaagtcctg aaatgttgt 229

<210> 398  
 <211> 250  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (134)..(134)  
 <223> n = unknown

<220>  
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 <222> (146)..(146)  
 <223> n = unknown

<220>  
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 <222> (167)..(167)  
 <223> n = unknown

<400> 398  
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 aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt 120

acacatatatt ttanaatgat catatncata gttagggtggg cattcgnaga acctgacctt 180  
 taccatcttt gcagaataag tatcttgtgc agtctttcgg atctggctga tatectacaa 240  
 ccgcgcatgt 250

<210> 399  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (3)..(3)  
 <223> n = unknown

<400> 399  
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 ttgtataaca aactgtaaac ttctataaaa tgtctagtga tatattattt gtgggtctaatt 120  
 ggttctagct tatgtagctt ttgacaaat aaaaattggt tataaaaaga aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 289

<210> 400  
 <211> 158  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 400  
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 taccatcttt cccaaccttg ccaacatctt cccaacagc aggatttcct ttggccgaa 120  
 aatctcttga tatgcaaaca aaaactggaa ctaaattgt 158

<210> 401  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 401  
 cgaaaccgga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac 60  
 ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag 120  
 atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt 173

<210> 402  
 <211> 475

<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (136)..(136)  
 <223> n = unknown

<220>  
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 <222> (229)..(229)  
 <223> n = unknown

<220>  
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 <222> (369)..(369)  
 <223> n = unknown

<220>  
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 <222> (415)..(415)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (464)..(464)  
 <223> n = unknown

<400> 402  
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 catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt 120  
 tcttgggttaa caacanatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcana agtgagattg 240  
 ctaagtaagg cttaaacag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtatana aattaaaatg tataaaattg tattttatgt aaggagcaca gacanaatgt 420  
 cattaactat agtatttctg attacttaaa atatataaat atanaagctt tatga 475

<210> 403  
 <211> 369  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 403  
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 catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt 120  
 tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180

FC-8-C3.ST25.txt

ataaaacgga gttgcgatgc ataccacgc caccgcgca agaatgcaaa agtgagattg 240  
ctaagtaagg cttaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
aaaaaaaaa 369

<210> 404  
<211> 209  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> n = unknown

<220>  
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<222> (183)..(183)  
<223> n = unknown

<400> 404  
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taaaagaatt gggatttgtg catttcatga cgggtgcaatc agcttctgac gatttctttt 120  
tacacatatt tttagaatga tcatatacat agttagggtg gcattcgaaa acctgacctt 180  
tancatcttt gcagaataag tatcttgtg 209

<210> 405  
<211> 138  
<212> DNA  
<213> Ctenocephalides felis

<400> 405  
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag 60  
atcatgtaag aattattggt cgaacagacc aaattttaaa acttctgcat tttaaaatta 120  
tcttaatcca acatcgag 138

<210> 406  
<211> 136  
<212> DNA  
<213> Ctenocephalides felis

<400> 406  
tccagcatca ccaacgattc caatcgcaaa acccgccgcc aagccggaaa atcctacggc 60  
caaaccagcg ccgagatgta tgaagccctt ataaagtgag taggtttttg gttcctccag 120  
agcaccgcga atcagt 136

<210> 407  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n = unknown

<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

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 <223> n = unknown

<220>  
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 <222> (165)..(165)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<400> 407  
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 catcnataaa actaatant angcaaaaat atttcaagtt acaatttcac acgatgcaat 120  
 tttccacaac atcattaatt ttttccaatc tggattccca tttantcaaa ttgtctgaan 180  
 aacattttcc caaatctaaa 200

<210> 408  
 <211> 215  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 408

FC-8-C3.ST25.txt

aaaacccaaa aggcattgtc catgcttcct gcaagcaaag cacattaaca ttattatcat 60  
gagcagcttg tataatattc ctagcctttc catacaaagc ctctctcatt tcagccacag 120  
gagtccacgt gttgagtcct tcgggtagtg caaattgcac tgctgcaatt ctaacaactc 180  
tcgaggctct tgtagattca tggcgagcta gaggt 215

<210> 409  
<211> 159  
<212> DNA  
<213> Ctenocephalides felis

<400> 409  
ctgcatatca atcaagactg tttaggtgca agcgccactt cttccccatc cataccatcc 60  
ttaccatctt tcccaacctt gccaacatct tccccaacag caggatttcc ttttggccga 120  
aaatctcttg atatgcaaac aaaaactgga actaaatgt 159

<210> 410  
<211> 98  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (41)..(41)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (86)..(86)  
<223> n = unknown

<400> 410  
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ctgagtttat atttcaacag cggttongcag cattgcgt 98

<210> 411  
<211> 367  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (329)..(329)  
<223> n = unknown

<400> 411  
cttggcatct agttttgtaa attcagtttg gctgtttatt ttgctgcgat atttcaatgg 60  
atttttcgta tctggaggaa gtgcaacaat atatgcatat ttaggagaat ttcataatcc 120

FC-8-C3.ST25.txt

taggcatcgc agcagggcta ttatgggagc gtcaagcatc ttcggatttg cgtgtcttgc	180
attaccgacg gttgcatggt taattataaa tcagaaatgg tcattctata ttgacttttt	240
gggatataca tacaagccct ggaggttgta tatggttgca tgtggtttgc catcactgct	300
ttgtttgtttt gctttgtgga aattaccana aagtcccaaa tttttgatga atcaggggaag	360
aaacgaa	367

<210> 412  
 <211> 324  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (244)..(244)  
 <223> n = unknown

<220>  
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<220>  
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 <222> (293)..(293)  
 <223> n = unknown

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catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt	120
tcttggttaa caacaaatgg canataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaa agtgagattg	240
ctangtaagg cttaaaccan gaaaacaatc ttgaatagac taattaggat tcnaattatc	300
ataaagtagt caattaatat aata	324

<210> 413  
 <211> 275



<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (182)..(182)  
 <223> n = unknown

<220>  
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 <222> (230)..(230)  
 <223> n = unknown

<400> 413  
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 catgcaaaag tgaaaacggt ttttccgatc gaagagattg tgaaaaatat tatcantggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 anaaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcatn aagtgagatt 240  
 gctaagtaag gcttaaacca ggaaaacaat ctgga 275

<210> 414  
 <211> 247  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 414  
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 tattacttta actgctgtat catcagcaca aacagctaga agttttgtgc taaaaatatg 120  
 aacaataatt aacaatatga acaaagaaat taaagaaaaa acatgatcaa attgtataga 180  
 acaatcttgt aaataattat gaaatataga actattttaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaac 247

<210> 415  
 <211> 296  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (90)..(90)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (226)..(226)  
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<400> 415  
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 tcaatcaa atttcatatt atagtttttc atttatagga tattttcatt tatttaacat 180  
 tattatgggtc aatatattgt taatgtatca tgggtatanc gactanagtg acaaataatt 240  
 tgaatgaaaa ctggacatta ccaatcgaat ccaaataatt tatgtcacgg gaaata 296

<210> 416  
 <211> 210  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 416  
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 ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattggggtt 120  
 cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaat 180  
 ctcgatgggtg acggacattt gaaaccttgt 210

<210> 417  
 <211> 462  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (447)..(447)  
 <223> n = unknown

<400> 417  
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 gtcttccata cagaattcac agttgtattt ttaccctcag gacaaccttc agtcgacata 120  
 tttagataag ggaatttcaa attcccttga gcaatattaa tttgggctcc acttaccac 180

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caactgacca ggattagact tgcagctgct cccaccaaaa ctcccttagt gttggcttta      240
gggaacaaaa ttcccaatgt aaacattccc aaaagtgttc ctgcagtgac tccagtaaca      300
ctgatgacca aatgcatgac acttccta atgttctacta cgaagacaag cccaaggcaa      360
atgcctccaa ttactactac agtcaacttc atgatgttac tggcagtcctt ctgagtggta      420
ttaaccggta accattcctt aataaanatc ctcgtaaagt gt                          462

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<210> 418
<211> 378
<212> DNA
<213> Ctenocephalides felis

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<400> 418
aatctgtaat accaggaatg ttaaacaaaa aagtaataac aaagatattg tattttttaa      60
taatattgat caccttgcac tgtaataata ctaaacaatc tattttacaat taaaaacact    120
ccttcacaaa tttaattctc cttcttgatg cgtgtggatg tcattctgta aataatggag     180
tcccttccgg ggtccattgt ggagattgag atacagatag ctagtagcga gaagaaaaag     240
gctactccga accataagat gatgttaaaa accaccgggt aagagtcggt gtattcttta     300
gctaggttga aatcgggttc ttttgagaca tcattctgctt gccttgtttt acgtgttagg     360
acgtcattgg aggttagt                                     378

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<210> 419
<211> 288
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (4)..(4)
<223> n = unknown

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<220>
<221> misc_feature
<222> (28)..(28)
<223> n = unknown

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<220>
<221> misc_feature
<222> (71)..(71)
<223> n = unknown

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<220>
<221> misc_feature
<222> (109)..(109)
<223> n = unknown

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<220>  
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 <222> (204)..(204)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (245)..(245)  
 <223> n = unknown

<220>  
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 <222> (252)..(252)  
 <223> n = unknown

<400> 419  
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 atgaaaatga ntcagtagca acttctgaat tttctttgta attgataana ctttctcaaa 120  
 gtataattgc atttcgcaac acacgacgga aatatgggta tgggtccatat gaagcaatgc 180  
 tcgtttcttct atccacttgc ttcngataaa tgttcggtat aaagaatgca atcactccac 240  
 atgcnatcag anatgttcct gatattaata atgttaaata gcaattat 288

<210> 420  
 <211> 374  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (299)..(299)  
 <223> n = unknown

<400> 420  
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 gaatgagatt ttttgggtaa ccattttcaa ttagagttat ttttactagg gataaatttt 120  
 gtggatggaa agtttgggtga gacaacaaaa tagcatgggc tgtaagggaa ataatagtgt 180  
 ttatcttata gtttctggga cagtatgagg aatagtgtaa gtatctaccc gaccatgtcg 240  
 tttttctata ccaatttggt cgaataaagt tattagtgtt gtaaacggat acatctaana 300  
 aattaagtct gttgttattt tgtagttcat gtgtgaaaat tatattattg ttaaaattat 360  
 tgaagagatc tagt 374

<210> 421  
 <211> 396  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (142)..(142)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (272)..(272)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (363)..(363)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (378)..(378)  
 <223> n = unknown

<400> 421  
 atattatatt cacaataatc taatcttcca agttgcggaa tgcttgctgt aaatcctcat 60  
 gtaattgatac aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact 120  
 tcattgagga caactgatat anaatattgc ccatagcatc tctaattgga ttccaggtaa 180  
 tcttggtttc actttgtgca gtagattcaa ctgcgtatct tgccatatca tagaaagcaa 240  
 taatgttacg taacatacca actgttttat anaaggggca gaaacgatca tatgatgagt 300  
 agctgtttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt 360  
 cangtttccg ccaaggangc tttaccaacc aattgt 396

<210> 422  
 <211> 381  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 422  
 atgcaatgag tggtttttttc atgtgctcac ccataaacag cggagcagtt tgatcccata 60  
 cagttcttaa aaatgatttc tttgttttat ttgtattttc accatccact cctggatatt 120  
 catctaagat tgatgatacg gggaattcac tttctgggtt accagtatta attctataca 180  
 ttttggaat aatttgacga gcttcttcgt ttcttcctg attcatcaaa aatttgggac 240  
 tttctggtaa tttccacaaa gcaaagacaa caaagcagtg atggcaaacc acatgcaacc 300  
 atatacaacc tccagggtt gtatgtatat cccaaaaagt caatatagaa tgaccatttc 360  
 tgatttataa ttaacatgc a 381

<210> 423

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 423

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ttctgataac aaaagggcct gtggataaag tctccatccc tgttccgtta caatgtgtac      60
at ttgacagg ctttgtgcca ggctcacacc tggaacctct gcatttctga caagtatcta    120
ctatgttgac attaatatct ttattaactc ctcgtgcagc ttgagagaat gttagtttca    180
tagatacttc ttttgcacca ccaaatacaa aactggattc agcaaagtca tcaaaacctc    240
cagttttaaa tcttgcacat ccaaataatt tgtgaaatag ttcttcaggg tcgattgtcg    300
attgatactt ccaactctgt gagaagcctt gagggcctgc tcccccatg ccgcccacat    360
gttcagaggt                                     370

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&lt;210&gt; 424

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 424

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atagctgac ctgacatacg ttcagctgtt acgacaggac cagaaacggc gtatacatag      60
ccgaattttc cctctcgctc ttcacccgag attttattaa gttcttgagg cattttggct    120
cctttgggta tttgtcggtt taaaacacac tctgatcctg ttcgaa                    166

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&lt;210&gt; 425

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 425

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aggaagttcc taccacaatt caaatggaaa tgtatacgaa gtaaccgaca tagttttaca      60
tccgaaattt aatataagga cctttgacta tgatgtcgct ctgggttaaag ttaaaaatcc    120
tattaaactt acagtgtgta atagtcgacc tgtaaattta gctaatagagc aatatgagac    180
tctgttagga tctttagttt atgtaacagg atggggagct aaccagaccg aaggaaacga    240
ttcttcagaa ttacttgggt cttggattcc tctgatagat tcttcagcat gtcaaagtaa    300
ttatgcagaa ccaggaaaac cagacagaat cactgataga atgttatgtg ctggttctgc    360
aaaagggtgac ggtttttgtc acggtgatta tgggtgtcca ttagttgaca aaaacaggaa    420
acttata                                           427

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&lt;210&gt; 426

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 426

```

ggccctggac aagatgccct tgcactcacc accgaatatg gagctgtcta cgatcaaaat      60
gccaccattg aagttcttaa taaacagaag aggaaaactt tgtgccacac tgatggcgaa     120
ggagttgaat gcgaaacaga agaagggagc atcgcacctc aaataatact atttgttgcc     180
caattaatth ctggagtcgg tggatcttta tactacactt taggtgtatc ctatatggac     240
gataacacca aaaaatctaa aacaccagca ctgatgagtt tttcttattt tcttcgtatg     300
ctcggacctg caaccggtta tgccttggct agcgtctgtc taaagttcta catttcgcca     360
acgttgacgc caacaattga taataatgat cctagatggg taggagcatg gtgggttaggt     420
tggttgatac taggatcaac tttaatatth tttgcaacgt tgattggatt gtttcctaaa     480
atctgccaag agctgcaa                                     498

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&lt;210&gt; 427

&lt;211&gt; 191

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 427

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caagttgcta cattcaaagg attacaaaca gaaaatgtag atgcaagcca agagtagatt      60
gtaattatth cataaaataa attaaaatcg caaaaaaaaa aaaaaaaaaa aaaaaaaaaa     120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa     180
aaaaaaaaaa a
                                                    191

```

&lt;210&gt; 428

&lt;211&gt; 173

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 428

```

tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac      60
aggattcctt aaccggatct gctcctatth ccggacaata ctgcatttcg ggtgaactgc     120
acgaattcac gcaactaaat tttactthtt tacattthttg ctcggggtttc ggt          173

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&lt;210&gt; 429

&lt;211&gt; 173

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 429

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cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac      60
ccgaaatgca gtattgtccg gaaataggag cagatccggg taagggaatcc tgtagcccag     120

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atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt 173

<210> 430  
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 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (92)..(92)  
 <223> n = unknown

<400> 430  
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 atcatgtaag aattattggt cgaacagacc anattttaaa acttctgcat tttaaaatta 120  
 tcttaatcca acatcgag 138

<210> 431  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (460)..(460)  
 <223> n = unknown

<400> 431  
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 catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataa tatagaagct ttatgaaatt 480  
 a 481

<210> 432  
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 <212> DNA  
 <213> Ctenocephalides felis



<220>  
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 <222> (58)..(58)  
 <223> n = unknown

<220>  
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 <222> (179)..(179)  
 <223> n = unknown

<220>  
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 <222> (210)..(210)  
 <223> n = unknown

<220>  
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 <222> (238)..(238)  
 <223> n = unknown

<400> 432  
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 ttctccatga gctgcttttg gcggtgcctt tgggtgcctct ggcataaccgt tttcttggct 120  
 ggagacaacg tctgaagtca tttccattcc ttggtttaaa tcaccatttg atttagcana 180  
 atgaggagct tcatctttat ttttcttggg tgccatcaaa tataatgggt tgcctaanag 240  
 catgagcgga atacagcaga gcccaattaa cacaaatatt ttttgaattt gctgttggtc 300  
 ttcaaacata aattcatcgc attgttctgc tggagatcct tgcttgaata acatcatgtt 360  
 aatgaaca 368

<210> 433  
 <211> 119  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 433  
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 cacgcagcat taacaagggt cttgcaattc agcataatga ccagaagaaa aatacaggt 119

<210> 434  
 <211> 364  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 434  
 tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca 60  
 aaagggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa 120  
 agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc 180

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agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg	240
catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca	300
aatacataat ctaataaacc agcaagtga cgtaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaa	364

<210> 435  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <222> (436)..(436)  
 <223> n = unknown

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tatacatattt aattttttata catatttttt atattttaatt gcacagatca tttgtgtatt	180
tattatatta attgactact ttatgataat ttgaatccna attagtctat tcaagattgt	240
tttcttggtt taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg	300
gtatgcatcg caactccggt ttatcaaagt gcaagccatt tggacaatca taatgtttta	360
tttgccattt gttgttaacc aagaaacatt gataatattt ttacaatct cttcgatngg	420
gaaaaacggt ttcaentttg catgcagttc tgcacgagaa agatttgggt caaacaatcg	480
ttgacgtcgt ctcacattca	500

<210> 436  
 <211> 221  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 436	
tatataatct gattctcgat ttgtatcttc ataactgatt ctcagatata cattaccgga	60

FC-8-C3.ST25.txt

atgttcatca ttacgtctga gttgtccact aaattcaact ttttttccat tttcttccat	120
gacatgtctg aattttatatt taccatcaac taaagattcc atgtgagctc ttgcgcaagt	180
tccatctcgt tcaaaatgat tttggtatct atattgttcg t	221

<210> 437  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (299)..(299)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (327)..(327)  
 <223> n = unknown

<220>  
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 <222> (488)..(488)  
 <223> n = unknown

<220>  
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 <222> (495)..(495)  
 <223> n = unknown

<400> 437	
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ggttatgaat atgacagaac atggtattta tcaacggctc cgtcagatca agactggggt	120
tgtgatagag aactctatgt aactaataca tttgctattg gacgtgcagg cgaagtcata	180
ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta	240
agtctcatca caatcgtcac cggaagacta attacagcat ttacttccag ttgggtttant	300
gtttttataa cagcggcttt tcttggncca ctaacatcta catctgtttt tcaaagccct	360
ttgataattg cgatggaaat atccagaagt gaagatagag cacacattgc catgatgcag	420
tccatcgggt ggaccagtgg aatgattcct aagccgttac tgatgtgggc gacgcgagat	480
tggggttancc ttgcnttg	498

<210> 438  
 <211> 95  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 438

FC-8-C3.ST25.txt

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gagttatatt tcaacagcgt tctgcagcag tgcgt						95

<210> 439  
 <211> 486  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 439	
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catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt	120
tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaa	360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggaaacaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct tatgaaaaaa	480
aaaaaa	486

<210> 440  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 440	
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acaaaaacc aatctagtca accatataac attcaacatc ctccatttgt ccgatataca	120
ttatgatcca aagtatgaag aaggaaaaaa tgccttatgt ggacaatcag cctgctgcag	180
gaatgatcaa gggcctcctg atcataagga ggatggtgca ggaaggtggg gcgactacag	240
gggatgcgat acgccaaga aggcgatgga agatgctatt cagcatataa aatataaaca	300
ccgggatatc gattttgctt attttactgg agatatgata gatcatgcca tgtgggaaac	360
atcgaccgaa agcaatataa aaacaatgaa agaagtgtta attgctatct atccactagc	420
tcctaaatta tatccagttt tgggtaatca tgaatcacat cccgccaatt tattttctca	480
acaaatgtta ctgatgag	498

<210> 441  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 441  
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 tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttccattg tgtctttaca ctcggtcgt 269

<210> 442  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 442  
 cctacacaac tcagggcaat ggcagtatgt atatctttta tgatgggtcg attaggaagt 60  
 gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagagg aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattagattc gatgtaagat atatgt 386

<210> 443  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

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 attttaaata atcagaaatt actatagtta atgacatttt gtttgtgctc cttacataaa 120  
 atacaatttt atacatttta atttttatac atatttttta tatttaattg cacagatcat 180  
 ttgtgtattt attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt 240  
 caagattggt ttcttggttt aagcettact tagcaatctc acttttgcac tcttcgccgg 300  
 gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat 360  
 aatgttttat ttgccatttg ttgttaacca agaaacattg ataataattt ttacaatctc 420

```

ttcgatcgga aaaaacgttt tcacttttgc atgcagttct gcacgagaaa gatttggggt      480
caaaccantc gttgacgtcg                                          500

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<210> 444
<211> 500
<212> DNA
<213> Ctenocephalides felis

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<223> n = unknown

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<220>
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<223> n = unknown

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<220>
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<222> (290)..(290)
<223> n = unknown

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<220>
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<222> (354)..(354)
<223> n = unknown

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<220>
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<222> (374)..(374)
<223> n = unknown

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<220>
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<222> (427)..(427)
<223> n = unknown

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<220>
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<222> (464)..(464)
<223> n = unknown

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<220>
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<222> (468)..(468)
<223> n = unknown

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<400> 444
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ttaaataatc agaaattact atagttaatg acattttgtt tgtgctcctt acataaaata      120
caattttata cattttaatt ttatacata ttttttatat ttaattgcac agatcatttg      180

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## FC-8-C3.ST25.txt

tgtatatttatt atattaattg actactttan gataatttga ancctaatta gtctattcaa 240  
gattgttttct ctgggtttaag cttacttag caatctcact tttgcattcn tcgccgggtg 300  
gcgtgggtat gcatcgcaac tccgttttat caaagtgcaa gccatttgga caancataat 360  
gtttttatttg ccanttggtg ttaaccaaga aacattgata atatttttta caatctcttc 420  
gatcggnaaa aacgttttca cttttgcatg cacttctgca cganaaanat ttgggtcaaa 480  
ccattcggtg acgtcgtctt 500

<210> 445  
<211> 173  
<212> DNA  
<213> Ctenocephalides felis

<400> 445  
tttcttttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac 60  
aggattcctt aaccggatct gctcctattt cggacaata ctgcatttcg ggtgaactgc 120  
acgaattcac gcaactaaat tttacttttt tacatttttg ctggggttgc ggt 173

<210> 446  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<400> 446  
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catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120  
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg 240  
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
acatgtatct ttttaata 498

<210> 447  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (442)..(442)  
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<220>  
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<400> 447  
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 tctatatatta tatattttta ataatcagaa attactatag ttaatgacat tttgtttgtg 120  
 ctccttacat aaaatacaat tttatacatt ttaattttta tacatatattt ttatatattaa 180  
 ttgcacagat catttgtgta tttattatat taattgacta ctttatgata atttgaatcc 240  
 taattagtct attcaagatt gttttcctgg tttaagcctt acttagcaat ctcacttttg 300  
 cattcttcgc cgggtggcgt ggggatgcat cgcaactccg ttttatcaaa gtgcaagcca 360  
 tttggacaat cataangttt tatttgccan ttgttgtaa ccaaganaca ttgataatat 420  
 tttttacaag tctcttcgat cngaaaaaac gttttcactt ttgcaancag ttctgcacga 480  
 gaaagatttg ggtcaaacca 500

<210> 448  
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 <213> Ctenocephalides felis

<220>  
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<220>  
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 <222> (139)..(139)  
 <223> n = unknown



<220>  
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 <222> (191)..(191)  
 <223> n = unknown

<220>  
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 <222> (194)..(194)  
 <223> n = unknown

<220>  
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 <222> (202)..(202)  
 <223> n = unknown

<400> 448  
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 atgtgatggt tgattacttg aagttacgtc agtagcttct ttcanggcgt cagtaatttg 120  
 cgattttgaa acatcgccna ccttcggcaa ttctataaca gtgggttgatt cgagagggtg 180  
 aaattgtttc ntanttttgt cntttttatt tttctttggt ttgtcagttg tctcttccat 240  
 aactttgtca ttgcccttct ttgaagggtg a 271

<210> 449  
 <211> 385  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 449  
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 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattagattc gatgtaagat atatg 385

<210> 450  
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 <212> DNA  
 <213> Ctenocephalides felis

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 tatgattggt caatttggtg ttggtttcta ctcggcctat ctcggttgctg ataaagtcac 120  
 ggtcacatct aagcacaatg atgatgaaca atacctttgg gaatcttccg caggagggtt 180

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<210> 451  
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<220>  
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 <223> n = unknown

<220>  
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 taaataatca gaaattacta tagttaatga cattttgttt gtgncctta cataaaatac 180  
 aattttatac attttaattt ttagacatat tttttatatt taattgcgca gatcatttgt 240  
 gtattttatta tattaattga ctactttatg ataatttgaa tcctaattag tctattcaag 300  
 attgttttcc tggtttaagc cntacttagc aatctcactt ttgca 345

<210> 452  
 <211> 375  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 452  
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 tccaccagtg g gatcgagaa ataatcgcac aattagctgt gttcgtgccc tggaccaata 120

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tgtaaattggc caaggaggct atgccactct tgtcaatggg ggagttggct ggaaaaatgt	180
aactttactc ctatcttctc agactggcaa aggatttaac ttcttagttg aaatttgggg	240
atattagatt agaaatataa tgaaaatgtg aatatagaaa aaaaattaaa tataacaatag	300
tattttaaat ttggcacaca tctatctatg catccataaa taaaggttat atacagcatt	360
catttaaaaa aaaat	375

<210> 453  
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<220>  
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 <223> n = unknown

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 <223> n = unknown

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 <223> n = unknown

<220>  
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&lt;223&gt; n = unknown

&lt;220&gt;

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&lt;222&gt; (392)..(392)

&lt;223&gt; n = unknown

&lt;400&gt; 453

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atgtaatttc	ataaagcttc	natattttata	tatttttaa	aatcagaaat	tactatagtt	120
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aangacattt	tgtttgtgct	ccttacataa	aatacaattt	tatacatttt	aattttttaga	180
------------	------------	------------	------------	------------	-------------	-----

cataattttt	atattttaatt	gcacagatca	ggttgngtat	ttattatant	aattgacnac	240
------------	-------------	------------	------------	------------	------------	-----

tttatgataa	tttgantccn	aaatagtcta	ttcaagattg	ttttccnggt	ttaagcctta	300
------------	------------	------------	------------	------------	------------	-----

cttatcaatc	tcacttttgc	attcttcgcc	gggtggcgctg	ggtatgcac	gcaactccgt	360
------------	------------	------------	-------------	-----------	------------	-----

tttatcaaag	tgcaagccat	ttggacaatc	anaatgtttt	atttgccatt	t	411
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&lt;210&gt; 454

&lt;211&gt; 490

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (483)..(483)

&lt;223&gt; n = unknown

&lt;400&gt; 454

tgaaatgtga	agacgacgtc	aacgaatgg	ttgacccaaa	atctttctcg	tgcagaactg	60
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catgcaaaag	tgaaaacggt	ttttccgac	gaagagattg	taaaaaatat	tatcaatggt	120
------------	------------	-----------	------------	------------	------------	-----

tcttggttaa	caacaaatgg	caaataaaac	attatgattg	tccaaatggc	ttgcactttg	180
------------	------------	------------	------------	------------	------------	-----

ataaaacgga	gttgcgatgc	ataccacgc	caccgcgcga	agaatgcaa	agtgagattg	240
------------	------------	-----------	------------	-----------	------------	-----

ctaagtaagg	cttaaacag	gaaaacaatc	ttgaatagac	taattaggat	tcaaattatc	300
------------	-----------	------------	------------	------------	------------	-----

ataaagtagt	caattaatat	aataaataca	caaatgatct	gtgcaattaa	atataaaaaa	360
------------	------------	------------	------------	------------	------------	-----

tatgtataaa	aattaaaatg	tataaaattg	tattttatgt	aaggagcaca	aacaaaatgt	420
------------	------------	------------	------------	------------	------------	-----

cattaactat	agtaatttct	gattatttaa	aatatataaa	tatagaagct	ttatgaaatt	480
------------	------------	------------	------------	------------	------------	-----

aanaaaaaaa						490
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&lt;210&gt; 455

&lt;211&gt; 437

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

<400> 455  
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ggatttccggt taacgtaagt tgtaatactt cctccattga atgcaacatt aataggatgt 120  
gatgaattca tagaatcata gaaaatctta aattcgtcac tatgtgtgtg gccattgaat 180  
tgtcctgtta ttatatgcca aaatctttgg atgatgcgcc tatattctct gtcccaagta 240  
atgaagtttag tgggttcacc aggaggaaca tgtcccaaaa tgtgcacttt ttcattagtt 300  
ctttctgctt ctaacagagt atcatgtaac cattgcaatt gctttttggg gaatgcagga 360  
tcatacagta accacaaatt ataaatatag gccacattat tattcaacgc tatgactcgt 420  
agtccaagtt taggtgt 437

<210> 456  
<211> 434  
<212> DNA  
<213> Ctenocephalides felis

<400> 456  
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa 60  
tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatccccg 120  
catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aatgcctgt 240  
tcttccattg tgtctttaca ctgggtcgta catctgtgat ttttagtaac attttatgta 300  
tacaaatata atgcactcat tttaagaatt aggattaaaa ggcttccaaa tttttttttg 360  
cgaaaaatgt atcatataaa attaattaat tcgtatttgt aagttaatgt aaataaaata 420  
cagaaaagtt atca 434

<210> 457  
<211> 133  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> n = unknown

<400> 457  
ctgtangtga agaattatta ggcagagtag ttgatgcttt aggaaatgcc attgatggca 60  
aaggtgcttt acaaagcaaa accagattcc gtgtaggaac taaagctccc ggtatcattc 120  
cacgtgtctc tgt 133

<210> 458  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 458  
 cctacacaac tcagggcaat ggcagtatgt atatcttttaa tgatgggtcg attaggaagt 60  
 gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgtaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattagattc gatgtaagat atatgt 386

<210> 459  
 <211> 491  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 459  
 tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg 60  
 catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
 tcttgggttaa caacaaatgg caaataaaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
 aaaaaaaaaa a 491

<210> 460  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (461)..(461)  
 <223> n = unknown

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<400> 460  
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 agcttctata tttatatatt ttaaataatc agaaattact atagttaatg acattttgtt 120  
 tgtgctcctt acataaaata caattttata cattttaatt tttatacata ttttttatat 180  
 ttaattgcac agatcatttg tgtattttatt atattaattg actactttat gataatttga 240  
 atcctaatta gtctattcaa gattgttttc ctgggttaag ccttacttag caatctcact 300  
 tttgcattct tcgccgggtg gcgtgggtat gcatcgcaac tccgttttat caaagtgcaa 360  
 gccatttgga caatcataat gttttatttg ccatttggtg ttaaccaaga aacattgata 420  
 atatttttta caatctcttc gatcgggaaa aacgtttcac ntttgcattg agttctgcac 480  
 gagaaagatt ttgggtcaaa 500

<210> 461  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 461  
 tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg 60  
 catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaaaa 480  
 aaaaaaaaaa aaaaaaaaaa 498

<210> 462  
 <211> 105  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 462  
 caagattggc cgctgatgta ggtaaaggcg ctgggtcaacg tgaattctct ggattgggca 60  
 actgcttgac caaaatcttc aagtctgatg gtctccctgg attgt 105

<210> 463  
 <211> 462  
 <212> DNA

<213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (71)..(71)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (156)..(156)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (184)..(184)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (399)..(399)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (434)..(434)  
 <223> n = unknown

<400> 463  
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 tgtagttcca natttcaatt tgctacttaa catattttat aattatggat ttattcaaaa 120  
 ttaatttaat ccaagagctt atgaaattgt atttancctt tagccattca gcaataaaaag 180  
 gtantaaaaa atacacatag aaatcttttc aggtatggcc atttatacat ttttttatta 240  
 cagtcaccaa aaaaatagta tttctatgtt atttttcaaa atctatacat tgataagggt 300  
 tagaaatttg ttcggttaat tttcaggctg aggttgctac tgtagtaata gaacaatttt 360  
 aataatctaa aatttgatta atctattaca tttaatcant caatantaaa tttccttttg 420  
 gaatttcgaa tggntgtcca ttacggtaaa caaagtctcc tc 462

<210> 464  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 464  
 tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atcttttctg tgcagaactg 60



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catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt	120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccgcgga agaatgcaaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt	480
acatgtatct ttttaata	498

<210> 465  
 <211> 333  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (281)..(281)  
 <223> n = unknown

<400> 465	
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cactagggga cttcccccta catttagaag tccgtattat ttcttacttt taattttatt	120
ttcttcattt ttatattaac tctatatctt tatctatcta tctattagtt caaccaataa	180
aattaagcgt aaaatgaata attttgatta gaacaaatat attcatggat ttaaaaaaat	240
ctaaattgta aaattcttaa atgccttata atatttgcca ncctgtgttc aaccataata	300
tttttttata taacacataa agtaaaacaa agt	333

<210> 466  
 <211> 492  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 466	
tttttttttt tttttttttt ttttttcttt caaagcattt tatttttgtt ttaaaatata	60
taagcattga taaatataaa gatagtttta tacgagctta agcttcttta taagttacaa	120
attaccaggt atatcaaaat aagaaaaata agtaaaactat taatacaata caaaaaaaaa	180
cataaaaaatt tgaaaactta atactaatat gaagcattag acattacaat ttaataatac	240
ataaatttta aaaagaattt aataaaatta tttatgacgt gccattcttt gatgacatgg	300
catttggtga tgactttcaa ttttcaactt ctgacatctc agtgatggta tcgttgatat	360

cgagaagctg ttggatatat gattgatcgc tcaatatgct tgataatgac gatagcagct 420  
 ttgttagctc tgaactagac attcttaatt gtgaactgca ctcatctgac tgatgttgaa 480  
 gttgctctgg ta 492

<210> 467  
 <211> 143  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 467  
 taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag 60  
 atcatgtaag aattattggt cgaacagacc aaattttaaa acttctgcat tttaaaatta 120  
 tcttaatcca acatcgaggt cgc 143

<210> 468  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 468  
 cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt 60  
 gttgttgga gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattagattc gatgtaagat atatgt 386

<210> 469  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 469  
 agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa 60  
 tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaattccg 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttcattg tgtctttaca ctcggtcgt 269

<210> 470  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (408)..(408)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (425)..(425)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (429)..(429)  
 <223> n = unknown

<400> 470  
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 aagatacatg taatttcata aagcttctat atttatatat tttaaataat cagaaattac 120  
 tatagttaat gacattttgt ttgtgctcct tacataaaat acaattttat acattttaat 180  
 ttttatacat atttttttata tttaattgca cagatcattt gtgtatttat tatattaatt 240  
 gactacttta tgataatttg aatcctaatt agtctattca agattgtttt cctgggttaa 300  
 gccttactta gcaatctcac ttttgcatte ttcgccgggt ggcgtgggta tgcacgcaa 360  
 ctccgtttta tcaaagtga agccatttgg acaatcataa tgttttantt gccatttgtg 420  
 gttancaang aaacattgat aatattttta caatctcttc gatcggaana aacgttttca 480  
 cttttgcatg cagttctgca 500

<210> 471  
 <211> 118  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 471  
 ctgtattttt cttctgggca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac 60  
 caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctcg gtgatggg 118

<210> 472  
 <211> 488  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 472  
 aattgtgtat tattattatt atttgggata ttattgatat aataattgtc ttaaaatata 60

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tcactacagc gcgctatcat cgactagtgc attatcataa taaataagca tctgcactat	120
aaagcttaat gattatttgc tgatttcgat tttgaactaa ttgaaaaaat taactggaac	180
ttttcccaga ttgaaatcac ttcatttaag acaattacaa ccatttttaa ggaggtat	240
ggctatgatt tgtctcctgg caaaacaaag gggcggcata tattacataa tcctataact	300
atagaaaagc aaatttaatt gtaaataatt ttaagagatt ataaaagaat tcatatat	360
tgttttgcat aatcttacag tgatagaaga aattatacaa attttgtgtg atttagtgca	420
aaattatctt ttaaaaaaat ataagtgata agaaatttaa tatatttaat taaatttata	480
tctgctgt	488

<210> 473  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 473	
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa	60
tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg	120
catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct	180
attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt	240
tcttccattg tgtctttaca ctcggtcgt	269

<210> 474  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (297)..(297)  
 <223> n = unknown

<400> 474	
tttttttttt tttttataat taattacaaa ggaacggccc taacgattta tttttattaa	60
aaagatacat gtaatttcat aaagcttcta tatttatata ttttaaataa tcagaaatta	120
ctatagttaa tgacattttg tttgtgtccc ttacataaaa tacaatttta tacattttta	180
tttttataca ttttttttat atttaattgc acagatcatt tgtgtattta ttatattaat	240
tgactacttt atgataattt gaatcctaata tagtctattc aagattgttt tcctggntta	300
agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgca	360

FC-8-C3.ST25.txt

actccgtttt atcaaagtgc aagccatttg gacaatcata atgttttatt tgccaattgt 420  
 tgттаaccaa gaaacattga таататттт тасаатсстс тсгатсггаа аааасгттт 480  
 састтттгса тсгасттсг 500

<210> 475  
 <211> 311  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 475  
 тттгттттас тттатгтгтт ататаааааа ататтатггт тгаасасггс ссгсгааата 60  
 тгатаaggca тттаагаатт ттасааттта гаттттттта аатсатгаа тататтгтт 120  
 стаатсаааа ттаттсаттс тасгсттаат тттатгггтт гаастаатас атасатасат 180  
 аагасатасат агттаатата аааатгаага ааатаааатт ааагтаага аатаатасгг 240  
 аттсстааат гtagggggaa gtcccctagt ggcggacacc таагттатт татааатааа 300  
 тсаааааааа а 311

<210> 476  
 <211> 438  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (88)..(88)  
 <223> n = unknown

<400> 476  
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 гаатгаттаа атгтаатана ттаатсанат ттtagatgat таааатгтт ссаттасатс 120  
 аатасасаасс тсгсстгаа ааттаассга асааасттсст аасатсстта ттаатгтата 180  
 гаттттгаат аатаасатас аааттатаст аттттттгта тгастсстат ааааааатг 240  
 татааатггс сатгсстгас ататтттгта таассттаат гаааааатгт ттааатггс 300  
 атгтсгтааа агаттсстат гсгтаттттт тгттаасат тттаттгттг аатггатааа 360  
 агатааатас ааттттатаа гсггттггга таааттаатт ттгаатааат ссататсат 420  
 агаататгтт аасгасга 438

<210> 477  
 <211> 484  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 477  
 tgaaatgtga agacgacgtc aacgaatggg ttgacccaaa atctttctcg tgcagaactg 60  
 catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattacc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttataaaaaa 480  
 aaaa 484

<210> 478  
 <211> 434  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 478  
 gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat 60  
 tgaatgatta aatgtaatag attaatcaaa ttttagatta ttaaaattgt tctattacta 120  
 cagtagcaac ctgagcctga aaattaaccg aacaaatttc taacccttat caatgtatag 180  
 attttgaaaa ataacataga aatactattt ttttgatgac tgtaataaaa aaatgtataa 240  
 atggccatac ctgaaaagat ttctatgtgt attttttatt accttttatt gctgaatgga 300  
 taaaagataa atacaatttc ataagctctt ggattaaatt aattttgaat aaatccataa 360  
 ttataaaata tgtaagtag caaattgaaa tatggaacta caaatgtat acgaaatata 420  
 acttatataa taaa 434

<210> 479  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 479  
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 aggattcctt aaccggatct gtcctatct cgggacaata ctgcatttcg ggtgaactgc 120

atgaattcac gcaactaaat ttactttttt tacatttttg ctcggttttc ggt

173

<210> 480  
 <211> 415  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (401)..(401)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (410)..(410)  
 <223> n = unknown

<400> 480  
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 tgttctagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt 120  
 taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactacta taatgattat 180  
 tgaaataatg cttttataga ttgcatttca atctgtatta aattgtatgt aaatcacagc 240  
 acaagatcta acacacaatt catctaacag aaagaacaaa ataattttta tggtattataa 300  
 aattacatat aaaataactt ttacaataaa gtaaccttac atgagatgtg ttgatttcag 360  
 atacttttca tacaacagtg ctttctgtat aaacaatata ntataacatn acggt 415

<210> 481  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (40)..(40)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (257)..(257)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (352)..(352)

<223> n = unknown

<220>

<221> misc\_feature

<222> (401)..(401)

<223> n = unknown

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<222> (443)..(443)

<223> n = unknown

<400> 481

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tacaatttta tacattttta tttttatata tattttttac atttaattgc acagatcatt      180
tgtgtattta ttatattaat tgactacttt atgataattt gaatcctaata tagtctattc      240
aagattgttt tcctggntta agccttactt agcaatctca cttttgcatt cttcgccggg      300
tggcgtgggt atgcatcgca actccgtttt atcaaagtgc aagccatttg gncaatcata      360
atgtttttatt tgccatttgt tgtaaccaa gaaacattga naatatTTTT tacaatctct      420
tcgatnggaa aaaagggtttc acntttgcat gcagttctgc acgagaaaga tttgggtcaa      480
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<210> 482

<211> 498

<212> DNA

<213> Ctenocephalides felis

<400> 482

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atttattttct taatccacaa gttcagagac ttcagtaatt gtagcatctg ctaacatgcc      180
ttttttgtca ccagttatta catgaccaac aataaaaagct ttttgctttt caagctcata      240
aatctcttta atatatcctt ctgcatctgc ttttggtaaa gctattaata ggccctcctga      300
agtttctggc aaatatcctt ctgctagctt aaacattttg ctgaagattt tggcaacttc      360
ggaacatttg taaaaaactg gtagtttatt caatacaaat gaaacattat ttttctgatt      420
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498

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 atttttttta aaagaaggaa cattgaaaat aacgatgctg gatacaaatc ccaggggcaa 180  
 aaactataac actaattgaa aatctaattt tttacactcg caaactgcag aattaatatg 240  
 tattcgagtg ggacgagcta attgtatcaa tattcaacaa taaccgattt tcaataatat 300  
 tgatctccat tgagattaaa caataagtca tanatgaata ccattaataa tgatctgttt 360  
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<210> 484  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 484  
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 aatatttttt gtaaattaag tttatgatga acttagttct gttacgtaac aaaaaggtaa 180  
 cattgtagta acatataaaa tacaaagtgt catagttggt attattttga taactttata 240  
 tagatttagt gttattttaa agttatttgt atatataatta ataaaaaat tcaaaggtaa 300  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
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 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
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 aanaaaataa naaaaaaac 498

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 <211> 354  
 <212> DNA  
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 gacaaagtag ctttacacaa tttggaaatt gcaatgtggt aaaactaatt gttttttaga 180  
 actatattat attatatctt ggggaatatt aaagttacgg acctacaaaa ttaagactat 240  
 gtaatgtatt cttcttttagc cactgacaaa tttaaataat aaatcttgct tcgataagta 300  
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 cagtagcaac ctgagcctga aaattaaccg aacaaatttc taacccttat caatgtatag 180  
 attttgaaaa ataacataga aatactatatt tttgatgact gtaataaaaa aatgtataag 240  
 atggccatac ctgaaaagat ttctatgtgt attttttant accttttatt gctgaatgga 300  
 taaaagataa ntacaatttc ataagctctt ggattaaatt aattttgaat aaatccataa 360  
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
ataaaacgga gttgcatgac ataccacgc caccggcgga agaatgcaaa agtgagattg 240  
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
ataaagtagt caattaatat aataaatata caaatgatct gtgcanttaa ctataaanaa 360  
tatgtatnaa aattaaaatg tataaaaatg tantttatgt tagggagcac aancaaaatg 420  
tcataactat agtaattcng attaatataa atatntaata tagaagctta tgaantacat 480  
gtacctttta ataaaata 498

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 atcttcgaaa agttgatggc acttcatgct tcaaatcgcc aacgacataa caagctcaag 180  
 atgcaatatt aaactatggt gtaaacataa aatatattat tgaaatttta taaagaggac 240  
 ttttataatc gctcaaagtt tgacttaata taatataaat tattttctctt taatatattt 300  
 ttatatttta aagaaaatgt atgt 324

<210> 490  
 <211> 229  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 490  
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 aatgggggtgt tcttggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat 180  
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 <212> DNA  
 <213> Ctenocephalides felis

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 caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat 180  
 agattttgaa taataacata gaaattatac tattttttttg atgactctaa taaaaaaaaat 240  
 gtataaatgg ccatgcctga tatattttttg ataaccttaa tgaaaaaatg tttaaatggc 300  
 catgtctgaa aagattttcta tgtgtatttt ttgtttaaca ttttattggt gaatggataa 360  
 aagataaata caattttata agctgttttg ataaattaat t 401

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tncatttttaa tttttatacn ttttttttat atttaattgc ncagatcatt tgggtattta 180

ttatattaat tgactncttt atgataattt gaatcctaatt tagtgtattc aagattgttt 240

tcctgggttta agccttactt a 261

<210> 494

<211> 220

<212> DNA

<213> Ctenocephalides felis

<400> 494

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ccatcgtgac tcagaccagg attcatggat ggggtggtttg ccattgaaac tgagaggcat 180

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<210> 495

<211> 118

<212> DNA

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<222> (37)..(37)

<223> n = unknown

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<222> (68)..(68)

<223> n = unknown

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<210> 496  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 496  
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 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttccattg tgtctttaca ctgggtcgt 269

<210> 497  
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 cattaaaatt attntgttct ttctgtnaga tgaattgngt gttagatctt gtgctgtgat 180  
 ttacatacaa ttaatacag attgaaatgc aatctataaa agcattatct caataatcat 240  
 tatatagtaa ttngatctt gactatttgc agataaattc attacattct aaaatgttta 300  
 ctttattaag ctatacaaac cttgaacttt acactttgta tntctagaac ataagtatta 360  
 aataaattgc taaaaatatt tgtggctaga ttctnctatt gctaattgng tg 412

<210> 498  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

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 tataattgca tttcacaaca cagcagcgaa atatgggtat ggtccatag aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca 240  
 tgctatcaga gatgttctctg atattaaaaa tgttaaatcg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatc 360  
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<210> 499  
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<400> 499

FC-8-C3.ST25.txt

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 ttttatacat ttttaattttt atacatatTT tttatatTTa attgcacaga tcattttgngt 180  
 atttattata ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat 240  
 tgntttcctg gtttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg 300  
 tgggtatgca tcgcaactcc gttttatcaa agtgcaagcc atttggacaa tcataatgnt 360  
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 cggaaaaaac gttttcactt ttgcatgcag tctgccgaga aagatttttg gtcaaaccat 480  
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<210> 501  
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 <212> DNA  
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<400> 501  
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FC-8-C3.ST25.txt

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caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat	180
agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaaat	240
gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc	300
catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattggt gaatggataa	360
aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca	420
tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat	480
ataacttata tgatatat	498

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ttatacattt taatttttat acatattttt tatatttaat tgcacagatc atttgtgtat	180
ttattatatt aattgactac tttatgataa tttgaatcct aattagtcta ttcaagattg	240
ttttcctggg ttaagcctta cttagcaatc tcacttttgc attcttcgcc ggggtggcgtg	300
gggatgcac gcaactccgt tttatcaaag tgcaagccat ttggacaatc ataattgttt	360
atttgccatt tgttggttaac caagaaacat tgataatatt ttttacaatc tcttcgatcg	420
gaaaaaacgt tttcactttt gcatgcagtt ctgcacgaga aagatttttg gcaaaccatt	480
cgttgacgtc gcttcacatt	500

<210> 503  
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 <212> DNA  
 <213> Ctenocephalides felis

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taattgcgat ttaacatttt taatatcagg aacatctctg atagcatgtg gagtgattgc	180
attctttata ccgaacattt atcagaagca agtggataga agaacgagca ttgcttcata	240
tggaccataa ccatatttcc gtcgtgtgtt gtgaaatgca attatacttt gagaaagtat	300
tatcaattac aaagaaaatt cagaagttgc tactgaatca ttttctaaaa catcgacatg	360

aaaattaata actcttttatt gttatttagat tcgatgtaag atatatgt 408

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 ttatacattt taatttttat acatattttt tatattttaat tgcacagatc atttgngtat 180  
 ttatttatatt aattgactac tttatgataa tttgaatcct aattagtcta ttcaagattg 240  
 ttttcctggg ttaagcctta ctttagcaatc tcacttttgc attcttgcgc ggggtggcgtg 300  
 ggtatgcac gcaactcgt tttatcaaag tgcaagccat ttggacaatc ataatgtttt 360  
 atttgccatt tgttgttaac caagaaacat tgataatatt ttttacaatc tcttcgatcg 420  
 gaaaaaacgt tttcactttt gcatgcagtt ctgcacgaga aagattttgg gtcaaaccat 480  
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<210> 505  
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 <212> DNA  
 <213> Ctenocephalides felis

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 caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat 180  
 agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaat 240  
 gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaatggc 300  
 catgtctgaa aagattttcta tgtgtatttt tttgttaaca ttttattggt gaatggataa 360  
 aagataaata caattttata agctggttgg ataaattaat tttgaataaa tccataatca 420

tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat 480  
ataacttata tgatatat 498

<210> 506  
<211> 173  
<212> DNA  
<213> Ctenocephalides felis

<400> 506  
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac 60  
ccgaaatgcg gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag 120  
atcaagtgtg cgctgatcaa agtggatata tacagtgcac cactaaagaa agt 173

<210> 507  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (488)..(489)  
<223> n = unknown

<400> 507  
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atcttttctcg tgcagaactg 60  
catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120  
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaattgcaa agtgagattg 240  
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
tatgtataaa aattaaaatg cataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
aaaaaanna aatgaaaa 498

<210> 508  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (60)..(60)

<223> n = unknown

<400> 508

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tttcgcagtt tacaatcca gaagagatac cagagcaact tcaacatcag atcaatgagn      60
gcagttcaca attaagaatg tctagttcag agctaacaaa gctgctatcg tcattatcaa    120
gcatattgag cgatcaatca tatatccaac agcttctcga tatcaacgat accatcactg    180
agatgtcaga agttgaaaat tgaaagtcac caacaaatgc catgtcatca aagaatggca    240
cgtcataaat aattttatta aattctttttt aaaatttatg tattattaaa ttgtaatgtc    300
taatgcttca tattagtatt aagttttcaa atttttatgt ttttttttgt attgtattaa    360
tagtttactt atttttctta ttttgatata cctggtaatt tgtaacttat aaagaagctt    420
aagctcgtat aaactatctt tatattatca atgcttatgt attttaaaca aaaataaaat    480
gctttgaaag gaaaaaaaaa                                         498

```

<210> 509

<211> 414

<212> DNA

<213> *Ctenocephalides felis*

<220>

<221> misc\_feature

<222> (52)..(52)

<223> n = unknown

<220>

<221> misc\_feature

<222> (54)..(54)

<223> n = unknown

<220>

<221> misc\_feature

<222> (65)..(65)

<223> n = unknown

<400> 509

```

acacaattag caataggaaa atctagccac aaatattttt aacaatttat tngntactta      60
tgtgnctaga aatacaaaagt gtaaagttca aggtttgtat agcttaataa agtaaacatt    120
ttaaaatgta atgaatttat ctgcaaatag tcaaaatcaa aattactata taatgattat    180
tgaaataatg cttttataga ttgcatttca atctgtatta aattgtatgt aaatcacagc    240
acaagatcta acacacaatt catctaacag aaagaacaaa ataattttta tgttattaaa    300
aattacatat aaaataactt ttacaataaa gtaaccttac atgagatgtg ttgatttcag    360
atacttttca tacaacagtg ctttctgtat aaacaatata atataaataa cgggt         414

```

```

<210> 510
<211> 229
<212> DNA
<213> Ctenocephalides felis

<400> 510
aacatttctg actttgcacg tccagactgc atcatcatatc gcctacggac agtgtcgaat      60
ggatatgaca caataccagc aacagttgtg acggcttgtg caatggccca gctgataact      120
aatggggtgt tcttgggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat      180
gctgcacggt aggtgatgat accttgaaca gatactccaa aaccacggt      229

<210> 511
<211> 223
<212> DNA
<213> Ctenocephalides felis

<400> 511
aattgcgaag tctggaacta aagccttcat ggaagcctta caagctggag ccgatattag      60
tatgattggt caatttgggtg ttggtttcta ctcggcctat ctggttgctg ataaagtcac      120
ggtcacatct aagcacaatg atgatgaaca atacctttgg gaatcttccg caggagggttc      180
cttcacagtt aagactgaca actctgaacc cctcggccgt ggt      223

<210> 512
<211> 414
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (65)..(65)
<223> n = unknown

<400> 512
ccgttatatta tattatattg tttatacaga aagcactggt gtatgaaaag tatctgaaat      60
caacncatct catgtaaggt tactttattg taaaagttat tttatatgta atttttaata      120
acattaaaaat tattttgttc tttctggttag atgaattgtg tgtttagatct tgtgctgtga      180
ttacataca atttaataca gattgaaatg caatctataa aagcattatt tcaataatca      240
ttatatagta attttgattt tgactatttg cagataaatt cattacatat taaaatgttt      300
actttattaa gctatacaaa ccttgaactt tacactttgt atttctagaa cataagtatt      360
aaataaattg ttaaaaatat ttgtggctag attttcctat tgctaattgt gtgt      414

<210> 513
<211> 498

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&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 513

```

gatgaaatca agaaattggt gtaaattaag caataaacia ccataaaaaa aaaagagaaa      60
aatctaaaaa caatttaaata tagcaaaacc aagtgtatgt gaatttcatt ttgcacaaag      120
ttaccttttt gtattaaaat atatgtatat ttatgaatat gtatttcttg tatttttaggt      180
taaattcggt atagaataat ttggaaatac atattcataa tgctaaagta ttaaattggc      240
ttttttccat taaaatccta tttaacatta tacatatatt ttattgtcaa atgtgaggcg      300
gtatggaatc acgggtgggt gctttctgag tagtcgaacc ttttaggcaa aaattgtgta      360
gatcaaactc agttctacaa tcttgagctc atccacattc tcagaacatc catgtattta      420
agttaactta ttgtatttaa cagtttttga ggaaatctgt aaatatgttt aagataaata      480
caagtaaaat tgtcgaat                                     498

```

&lt;210&gt; 514

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 514

```

cccgctgtcg gaccaaagtc gcttcatagc tgctaaaagt tcctcggaag atgcttctgt      60
atcctccata cgttggatta cgtcaaagac ctttttgccg tccgtctctc ttccattgtt      120
cccaaaacta atgccccaaat tgggcatggc ccgcagtatg gcaaccagtg attgaatggt      180
attactgtaa acaactgggc gatattgttt gaagtcttcg cttgtgaaac ccgactcatg      240
gataattttc atttgtttta cgatagtt                                     267

```

&lt;210&gt; 515

&lt;211&gt; 131

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 515

```

cttttgcatt taggatccaa tggatcgaga aatagtcгаа ctcttgaca aatgaatggt      60
tgctgcaaaa tacgaacgct gctggaatgt gtttcaactg gaattagttc ttgagactcc      120
aaagacaatg t                                     131

```

&lt;210&gt; 516

&lt;211&gt; 156

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 516



## FC-8-C3.ST25.txt

```

ttttatttgt caaaaagcta cataagctag aaccattaga ccacaaataa tatatcacta    60
gacattttta ggaagtttac agtttggtat acaattctta aactaattta gttatcagta    120
agttttaagc agtcggcaca gtctttacgg acttgt                                156

```

```

<210> 517
<211> 245
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 517
gggtggatca ttccaacctg gtggtggtgt agggtttgct ctacttggca tttgagtagg    60
aggtggtgct tgcggttgga attgattgac aaaacctgct ccttgtggtg aattcaacat    120
agggttaagt agggcatttg ttggttgagg ttgagaacta ataggattca gaagacttgc    180
tggttggttg aattgaccag acattgtgct catcgtaact gtattggcat ttacaggcga    240
attgt                                              245

```

```

<210> 518
<211> 498
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 518
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg    60
catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt    120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg    180
ataaaacgga gttgcgatgc atgccacgc caccggcga agaatgcaaa agtgagattg    240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc    300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa    360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt    420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt    480
acatgtatct ttttaata                                498

```

```

<210> 519
<211> 413
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (64)..(64)
<223> n = unknown

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<400> 519  
acacaattag caataggaaa atctagccac aaatattttt aacaatttat ttaataactta 60  
tggncitagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt 120  
taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactatat aatgattatt 180  
gaaataatgc ttttatagat tgcatttcaa tctgtattaa attgtatgta aatcacagca 240  
caagatctaa cacacaattc atctaacaga aagaacaaaa taattttaat gttattaaaa 300  
attacatata aaataacttt tacaataaag taaccttaca tgagatgtgt tgatttcaga 360  
tacttttcat acaacagtgc tttctgtata aacaatataa tataaataac ggt 413

<210> 520  
<211> 95  
<212> DNA  
<213> Ctenocephalides felis

<400> 520  
tacgagtgc cattaaacgc tcaaggtgta ttcgacgtgg cccgatatgc ttgtgcagct 60  
gagttatatt tcaacagcgt tctgcagcag tgcgt 95

<210> 521  
<211> 143  
<212> DNA  
<213> Ctenocephalides felis

<400> 521  
taattaattt taataaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag 60  
atcatgtaag aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta 120  
tcttaatcca acatcgaggt cgc 143

<210> 522  
<211> 500  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (48)..(48)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (109)..(109)  
<223> n = unknown

<220>  
<221> misc\_feature

<222> (140)..(140)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (216)..(216)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (255)..(255)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (373)..(373)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (414)..(414)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (433)..(434)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (444)..(444)  
 <223> n = unknown

<400> 522  
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 tacatgtaat ttcataaagc ttctatatatt atatatattta aataatcana aattactata 120  
 gttaatgaca ttttgtttgn gctccttaca taaaatacaa ttttatacat ttttaattttt 180  
 atacatatatt tttatatattta attgcacaga tcattngggg atttattata ttaattgact 240  
 actttatgat aattingaat ctaattagtc tattcaagat tgttttcctg gtttaagcct 300  
 tacttagcaa tctcactttt gcattcttcg ccgggtggcg tgggtatgca tcgcaactcc 360  
 gttttatcaa agngcaagcc atttggacaa tcataatggg aatttgccat ttgntggaac 420  
 caagaaacat tgnnaatatt tttntacaac tcttcgatcg gaaaaaacgt ttcacttttg 480  
 catgcagttt tgcaccgaga 500

<210> 523  
 <211> 118  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 523

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ctgtatTTTT cttctggTca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac 60  
caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctcg gtgatggT 118

<210> 524  
<211> 305  
<212> DNA  
<213> Ctenocephalides felis

<400> 524  
cattgtggat gaggcaaatc ccatatacca tgatgaagtt tgcttgtttc gaaagaacag 60  
ttgaattgtt atacactcat gtggttccca aaccagagc agaatgcact aaaggtgaac 120  
aattggttgt cacctttgct gctggttaca ttgccggtgt attctgtgca gtagtttctc 180  
atcctgcaga cacagttgtt tccaagctaa atcaagacaa aggagcaaca gccattgacg 240  
ctgcaaaaaa acttggcttt gctggtttat ggaagggatt aggacctagg atcatcatga 300  
ttggt 305

<210> 525  
<211> 304  
<212> DNA  
<213> Ctenocephalides felis

<400> 525  
ctgataaatt gcctgcaaga atgagtttca gggaacgaaa agaatcggcc aaatgcatgc 60  
aaaaggttgc attaaatata caactagcag cagccagagt ttcaactgat gttggcatta 120  
aagtaggaga agccctcagg aatgtcgtgg aacttcgttt aaatttggga aaatgttctt 180  
cagacaattt gaataaatgg gaatccagat tggaagaaat taatgatgtt gtggaaaatt 240  
gcatcgtgtg aaattgtaac ttgaaataat ttttcttaac tattagtttt atagatgaac 300  
aaat 304

<210> 526  
<211> 386  
<212> DNA  
<213> Ctenocephalides felis

<400> 526  
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt 60  
gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
tattagattc gatgtaagat atatgt 386

<210> 527  
<211> 488  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (144)..(144)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (249)..(249)  
<223> n = unknown

<400> 527  
aaacgattta tttttattaa aaagatacat gtaatttcac aaagcttcta ttttatata 60  
tttggaata atcagaaatt actatagtta atgacatttt gtttgtgctc cttacataaa 120  
atacaatttt atacatttta attnttatac atatttttta tatttaattg cacagatcat 180  
ttgtgtattt attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt 240  
caagattgnt ttcttggttt aagccttact tagcaatctc acttttgcac tcttcgccgg 300  
gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat 360  
aatgttttat ttgccatttg ttgttaacca agaaacattg ataataattt tacaatctct 420  
tcgatcggaa aaaacgtttc acttttgcac gcagttctgc acgagaaaga ttttgggtca 480  
aaccattc 488

<210> 528  
<211> 386  
<212> DNA  
<213> Ctenocephalides felis

<400> 528  
atatatctta catcgaatct aataacaata aagagttatt aattttcatg tcgatgtttt 60  
agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct 180  
cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
tgctatcaga gatgttcctg atattaaaaa tggttaaatcg caattataat ctagaattat 300  
tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatat 360

tgccattgcc ctgagttgtg tagggt

386

<210> 529  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 529  
 aataaatata attttattat ataagaaaca tatgtataac aatacaaatt ataactattt 60  
 aacagtcttc ttgtgataat ttcttgacgg ccgtatctgt agactttgat acaccttttt 120  
 tcggtaagct ccagaacacc tgatccctgc cgaatacgtg agcttcagtt agcgtttccg 180  
 gtaacttttg gtgtaaagtt tccggcaaga acattccgga agtcgcgccc accatcatca 240  
 ttacggaaag tacagcgtac ggatatctgg cgtcatatgt gggtcccaag tatacaatgt 300  
 atgggcctaa tactcctaata gcatttgaaa ctatagttcc aatggaaatt cctgtctgcc 360  
 tcaaacaggt tggatatggt ttcatgtgt gcagattcac aacataaaac gtgatgctta 420  
 tgcaaaatct cattaccacg gctaacagtg ggaccaaatt ctggagggat tcatcattgg 480  
 caatgcatat aagaatgg 498

<210> 530  
 <211> 451  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (124)..(124)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (149)..(149)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (198)..(198)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (229)..(229)  
 <223> n = unknown

<400> 530  
 tttttttttt tttttttttt ttttttccga caattttact tgtattttatc ttaaacaatat 60  
 ttacagtatt tcctcaaaaa ctgttaaata caataagtta acttaaatac atggatgttc 120

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tganaatgtg gatgagctca agattgtana actgagtttg atctacacaa tttttgccta	180
aaagggttcga ctactcanaa agcagccacc cgtgattcca taccgcctna catttgacaa	240
taaaatatat gtataatggt aaataggatt ttaatggaaa aaagccaatt taatacttta	300
gcattatgaa tatgtatttc caaattattc tataacgaat ttaacctaaa atacaagaaa	360
tacatatcca taaatatata tatattttta taaaaaagg taacttgtgc aaaaatgaaa	420
ttcaaataca cttgggtttg ctaatttaaa t	451

<210> 531  
 <211> 204  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 531	
ggacggccga ctcgtccgaa ttatgctcgg cacgtgttcg attcaaatga tcccgtctacg	60
ttcgacatcc aaatgataaa cactatctaa tcaagtgatg ttgtttaatt aagcaagtgt	120
tagttcgaat tcatttttgt gttttgtgta tattataata aatggacccc gaaattcctc	180
tgaaaggtgt gactccgggt ttgt	204

<210> 532  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (100)..(100)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (178)..(178)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (359)..(359)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (448)..(448)  
 <223> n = unknown

FC-8-C3.ST25.txt

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<400> 532
tttttttttt tttttttttt tttttttaat ttcataaagc ttctatattt atatatttta      60
aataatcaga aattactata gttaatgaca ttttgtttgn gtcctttaca taaaatacaa      120
ttttatacat ttttaattttt atacatattt tttatattta attgcacaga tcatttgngt      180
atttattata ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat      240
tgnntttcctg gtttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg      300
tgggtatgca tcgcaactcc gttttatcaa agtgcaagcc atttggacaa tcataatgnt      360
ttatttgcca tttgttggtta accaagaaac attgataata ttttttacia tctcttcgat      420
cggaaaaaac gtttcacttt tgcattgngt tctgcacgag aaagattttg ggtcaaacca      480
ttcgtggacg tcgcttcaca                                          500

```

```

<210> 533
<211> 204
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 533
aaacccggag tcacaccttt cagaggaatt tcgggggtcca tttattataa tatacacaaa      60
acacaaaaat gaattcgaac taacacttgc ttaattaaac aacatcactt gattagatag      120
tgtttatcat ttggatgtcg aacgtagcgg gatcatttga atcgaacacg tgccgagcat      180
aattcggacg agtcggccgt ccgt                                          204

```

```

<210> 534
<211> 288
<212> DNA
<213> Ctenocephalides felis

```

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<220>
<221> misc_feature
<222> (66)..(66)
<223> n = unknown

```

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<220>
<221> misc_feature
<222> (152)..(152)
<223> n = unknown

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<220>
<221> misc_feature
<222> (266)..(266)
<223> n = unknown

```

```

<400> 534
tttttttttt tttttttttt ttttttttct ttcatttatt actataaata tcaatgagtc      60

```



FC-8-C3.ST25.txt

ttaatntacc attacagtat taagtacatt ttcataatac tacgaaacca atagttcatt 120  
atgtataact ctcttatata tgaatttctg anaaagttta tatgccagct tcttataata 180  
attacaaaat atatTTTTca gccaatcca tcaatctgtc ggtcatgatt tctcgaaaat 240  
gttcacgtt attccaggct ttgtanagaa tggcttctct gtctcca 288

<210> 535  
<211> 173  
<212> DNA  
<213> Ctenocephalides felis

<400> 535  
tttcttttagt ggtgcactgt agatatccac tttgatcagc gcgcacttga tctgggctac 60  
aggattcctt aaccggatct gctcctatTT cggacaata ctgcatttcg ggtgaactgc 120  
acgaattcac gcaactaaat tttactTTTT tacatTTTTg ctcggttttc ggt 173

<210> 536  
<211> 143  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (5)..(5)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (40)..(40)  
<223> n = unknown

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atcatgtaag aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta 120  
tcttaatcca acatcgagga cgc 143

<210> 537  
<211> 462  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (62)..(62)  
<223> n = unknown

<220>  
<221> misc\_feature

&lt;222&gt; (455)..(455)

&lt;223&gt; n = unknown

&lt;400&gt; 537

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ataaaaaccaa ttcggttaagg tgcaataact ttatcatttg aatgcccacg gtgatgctgg      60
gngttccata cagaattcac agtcgtattt ttaccctcag gacaaccttc agtcgacata      120
tttaggtaag gaaacttcaa attaccttga gcaatgttaa tttgggctcc acttaccatc      180
caactgacca ggattagact tgctgcagct cccacaaaaa ctccctttgt gtttgcttta      240
gggaacaaga ttccaatgt aaacattccc aaaagggttc ctgcagtaac tccagtgcac      300
ctaataacca aatgcatgac gcttcctaata tgttctacta caaagacaag tccgaggcaa      360
attcctccaa ttactactac agtcagcttc ataataattac tggcagtcct ctactagtgc      420
gtaactgggt aaccattcct taataaaaac ttcgntaaag tg                          462

```

&lt;210&gt; 538

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 538

```

aataaatcat ggtctgaaga gacaaataag attgaaagtc aaataatacc ttgtcagcat      60
ggttatgaat atgacagaac atggtattta tcaacggctc cgtcagatca agactggggt      120
tgtgatagag aactctatgt aactaataca tttgctattg gacgtgcagg cgaagtcata      180
ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta      240
agtctcatca caatcgtcac cggaagacta attacagcat ttacttcag ttggtttatt      300
gtttttataa cagcggcttt tcttggttca ctaacatcta catctgtttt tcaaagccct      360
tcgataattg cgatggaaat atccagaagt gaagatagag cacacattgc catgatgcag      420
tccatcgggt ggaccagtgg aatgattcct atgccgttac tgatgtgggc gacgcgagat      480
tggtttatct ttgctttg                          498

```

&lt;210&gt; 539

&lt;211&gt; 172

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 539

```

cgaaaccga caaaaatgta aaaaagtaaa atttagttgc gtgaattcgt gcagttcacc      60
cgaaatgcag tattgtccgg aaataggagc agatccgggt aaggaatcct gtagccaga      120
tcaagtgtgc gctgatcaaa gtggatatct acagtgcacc actaaagaaa gt              172

```

&lt;210&gt; 540

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 540

```

gacaatctaa taagggccac atcatgttcg aaagatgtaa agttggtgtc aaagtcggga      60
tgtaataaat aaaaattggc atccacaatt ataccagcgt aataagccct aaagctgcca      120
actcgaactt gaacttgttt ttcggtgcgg acatttttga agcattgagc aacagtgagc      180
acaaaatatc tactaactat gactcctcca caaatatgat cacctctata taaaacagat      240
gccacgtaag gtaattcgct gatgtcagca ggctttcctc cgatcatacg agaatcggtc      300
aaatttttgc tttctgctcc agaaaataat acaataaaga aaattgcaaa gt              352

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&lt;210&gt; 541

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 541

```

aataaatcat ggtctgaaga gacaaataag attgaaagtc aaataatacc ttgtcagcat      60
ggttatgaat atgacagaac atggtattta tcaacggctc cgtcagatca agactggggt      120
tgtgatagag aactctatgt aactaataca tttgctattg gacgtgcagg cgaagtcata      180
ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta      240
agtctcatca caatcgtcac cggaagacta attacagcat ttacttcag ttggtttatt      300
gtttttataa cagcggcttt tcttggttca ctaacatcta catctgtttt tcaaagccct      360
ttgataattg cgatggaaat atccagaagt gaagatagag cacacattgc catgatgcag      420
tccatcgggt ggaccagtgg aatgattctt atgccgttct gatgtgggcg acgcgagatt      480
ggtttatctt tgcttttgg              498

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&lt;210&gt; 542

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (67)..(67)

&lt;223&gt; n = unknown

&lt;400&gt; 542

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tttttttttt tttttttttt taattgcaat gtattaaata ttcaaataa aagttacata      60
tggaancta aaaaatgtaa tcaaacgtat tgcaattata tacattatta ttaaattgaa      120

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FC-8-C3.ST25.txt

cactttatattt aaatataaat cattaaaaata ttaaaaaatat atttttatata tctcatagaa	180
tagtgccaag cattttacaat ctctcaaatac acaccttcac ctttttttcta aattataaaaa	240
caaccaaaga aaaactaaga ttctgtcaag catgagaaaa tcttaatgta acacactaac	300
tcgaaacctt ttaagattat taatctgtga ctctaaataa ttgcagtaat tttggaatga	360
atttttatag ataattggaa agagatcaaa gggaaagttt attgcaataa caacaatgaa	420
ttataacttg agacttggtta aaaagacctg tatctacttg ccggggctgt tgaaatatga	480
gccacagggtt tctggcattg	500

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 <213> Ctenocephalides felis

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aggattcttt aaccggatct gctcctatatt ccggacaata ctgcatttcg ggtgaactgc	120
acgaattcac gcaactaaat tttacttttt tacatttttg ctcggggttc ggt	173

<210> 544  
 <211> 491  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 544	
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catgcaaaag tgaaaacggt ttttccgata gaagagattg taaaaaatat tatcaatggt	120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcatgac ataccacgc caccggcga agaatgcaaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatac ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt	480
aaaaaaaaa a	491

<210> 545  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

FC-8-C3.ST25.txt

<400> 545  
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 tactatagtt aatgacattt tgtttggtc cttacataa aatacaattt tatacatatt 120  
 aatttttata catatttttt atatttaatt gcacagatca tttgtgtatt tattatatta 180  
 attgactact ttatgataat ttgaatccta attagtctat tcaagattgt tttcctgggt 240  
 taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg gtatgcatcg 300  
 caactccgtt ttatcaaagt gcaagccatt tggacaatca taatgtttta tttgccattt 360  
 gttgttaacc aagaaacatt gataatattt ttacaatct cttcgatcgg aaaaaacgtt 420  
 ttcacttttg catgcagttc tgcacgagaa agattttggg tcaaaccatt cgttgacgtc 480  
 gtcttcacat ttcagacgat 500

<210> 546  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 546  
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 agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgca tttcacaaca cagcagggaa atatggttat ggtccatatt aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttcctg atattaaaaa tgtaaatacg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgggcc atcattaaag atatacatatc 360  
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<210> 547  
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 <212> DNA  
 <213> Ctenocephalides felis

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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<222> (242)..(242)  
 <223> n = unknown

<220>  
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 <222> (358)..(358)  
 <223> n = unknown

<220>  
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<220>  
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 <223> n = unknown

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 ataatongaa attactatag ttaatgacat tttgtttgtg ctccttacat aaaatacaat 120  
 tttatacat ttaattttta tacatatattt ttatatattta ttgcacagat catttgngta 180  
 tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt 240  
 gntttcctgg ttttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt 300  
 gggatatgcat cgcaactccg ttttatcaaa gtgcaagcca tttggacaat cataatgnnt 360  
 tatttgccat ttgttggtta ccaagaaaca ttgataatat tttttacaat ctcttcgatc 420  
 ggaaaaaacg ttttcacttt tgcattgcagt tctgcacgag aaagattttt ggtcaaacca 480  
 ttggttgacg tcgncttcac 500

<210> 548  
 <211> 220  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 548  
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 atccatgcgg tctggggggc gagattcagg ccttgagggt ctaggttagag atcacagaga 120  
 ccatcgtgac tcagaccagg attcatggat ggggtggtttg ccattgaaac tgagaggcat 180  
 taatgacatg ttcaatggac taaatgtgtc tagtcccagt 220

<210> 549  
 <211> 223  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 549

FC-8-C3.ST25.txt

cacggccgag gggttcagag ttgtcagtct taactgtgaa ggaacctcct gcggaagatt 60  
 cccaaaggta ttgttcatca tcattgtgct tagatgtgac cgtgacttta tcagcaacga 120  
 gataggccga gtagaaacca acaccaaatt gaccaatcat actaatatcg gctccagctt 180  
 gtaaggcttc catgaaggct ttagttccag acttcgcaat tgt 223

<210> 550  
 <211> 336  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 550  
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 cagggaaacga aaagaatcgg ccaaatgcat gcaaaagggt gcattaaata tacaactagc 120  
 agcagccaga gtttcaactg atgttggcat taaagtaggg gaagccctca ggaatgtcgt 180  
 ggaacttcgt ttaaatttgg gaaaatgttc ttcagacaat ttgaataaat gggaatccag 240  
 attggaagaa attaatgatg ttgtggaaaa ttgcatcgtg tgaaattgta acttgaaata 300  
 atttttctta actattagtt ttatagatga acaaat 336

<210> 551  
 <211> 131  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 551  
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 tgctgcaaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc 120  
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<210> 552  
 <211> 500  
 <212> DNA  
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<220>  
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<222> (332)..(332)  
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<220>  
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 <222> (387)..(387)  
 <223> n = unknown

<220>  
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 <222> (406)..(406)  
 <223> n = unknown

<220>  
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 <222> (463)..(463)  
 <223> n = unknown

<400> 552  
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 acttaatagc gcaagaagca tattgtataa aaaaagcttt tgtataaaagt tcttatttttt 120  
 atttttcatat tgngccctaa taagatttat acttaaaaca ataaaaaatg cgtttttatta 180  
 aaagttgcaa gcagttaaat aaaatgntga ataaataata gtgataaatc attgcataat 240  
 gatgcaactc ataattatta agtaaattgg ctataacaac tactacatta tcagatctat 300  
 ccgcacttct taatattcaa taatattatg gntatcaggc ctcttatcac tttatagatt 360  
 tttaattaat ctattttaata ttaaatnaaa aattaattta aaaccnttaa accgatcatt 420  
 gctttaaatg gaataaatcc cataccctta ttaagcctgg tgnaatatgc catagccatt 480  
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<210> 553  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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 ttttgtttgt gctccttaca taaaatacaa ttttatacat ttttaattttt atacatatatt 180  
 tttatatattta attgcacaga tcattttgtgt atttattata ttaattgact actttatgat 240  
 aatttgaatc ctaattagtc tattcaagat tgnttttctg gtttaagcct tacttagcaa 300  
 tctcactttt gcattcttcg ccgggtggcg tgggtatgca tcgcaactcc gttttatcaa 360  
 agtgcaagcc atttggacaa tcataatgnt ttatttgcca tttgntgnta accaagaaac 420  
 attgataata ttttttacia tctcttcgat cggaaaaaac gttttcactt ttgcatgcag 480  
 ttctgcacga gaaagatttt gggtaaacc attcgttgac gtcgncttca catttcaagt 540

<210> 554  
 <211> 387  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 554  
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 catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaattgcaa agtgagattg 240  
 ctaagtaagg cttaaacag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaaaaaa 387

<210> 555  
 <211> 510  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 555  
 gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat 60

FC-8-C3.ST25.txt

tgaatgatta aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta	120
caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat	180
agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaaat	240
gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc	300
catgtctgaa aagattttcta tgtgtatttt tttgttaaca ttttattggt gaatggataa	360
aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca	420
tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat	480
ataacttata tgatatatga aaaaaaaaaa	510

<210> 556  
 <211> 345  
 <212> DNA  
 <213> Ctenocephalides felis

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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (300)..(300)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<400> 556  
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 atttttatac atatttttta tattttaattg cncagatcat ttgngtattt atttatattaa 180  
 ttgnctactt tatgataatt tgaatcctaa ttagtctatt caagattggt ntcctgggtt 240  
 aagccttact tagcaatctc acttttgcac tcttcgccgg gtggcggtggg tntgcntcgn 300  
 aactccgntt tatcaaagtg caagccattt ggacaatcat aatgt 345

<210> 557  
 <211> 262  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (171)..(171)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (248)..(248)  
 <223> n = unknown

<400> 557  
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 ttacaattat ataaatgttt ccgctatgga gaatatcagt ttatcatatt tataattata 120  
 aaatattcaa taataatgaa ctattttaaca aatgaacat tttagtattg naaaaatatg 180  
 aaactctctt ctaaacctta cgaataaatg cttttcaatg aacaagccga attgaaatgc 240  
 acatttgngg aatataaata gt 262

<210> 558  
 <211> 578  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (160)..(160)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (238)..(238)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
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 <223> n = unknown

<220>  
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 <222> (372)..(372)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (419)..(419)  
 <223> n = unknown

<400> 558  
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 attttattttt attaaaaaga tacatgtaat ttcataaagc ttctatatatt atatatttta 120  
 aataatcaga aattactata gttaatgaca ttttgtttgn gtcctttaca taaaatacaa 180  
 tttttatacat ttttaattttt atacatatatt ttttatattta attgcacaga tcattttgngt 240  
 attttattata ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat 300  
 tgnntttcctg gtttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg 360  
 tgggtatgca tngcaactcc gttttatcaa agtgcaagcc atttgacaa tcataatgnt 420  
 ttatttgcca tttgttggtta accaagaaac attgataata ttttttaca tctcttcgat 480  
 cggaaaaaac gttttcactt ttgcatgcag ttctgcacga gaaagatttt ggggtcaaacc 540  
 attcgttgac gtcgggttca catttcagtc cttggggc 578

<210> 559  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (177)..(177)  
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<220>  
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 <222> (416)..(416)  
 <223> n = unknown

<220>  
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<220>  
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<220>  
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 <222> (563)..(563)  
 <223> n = unknown

<220>  
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 <222> (567)..(567)  
 <223> n = unknown

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 ggtttaatac gccgatttaa aaacagacat cttatacaaaa attaaaatgg ctgctgntaa 180  
 attatagaat atcttttgat ttaaacaaaa tctaaatagt acataaaaact ggacattact 240  
 tccattatat atatagatat atacatatgt atgttaatgt atatatacat aaatacatat 300  
 agaatcaaac aatatcacia actggttgatt tgaataagtt gctattcata aaattatggt 360  
 ttgcgattta gtacattttt tgtatgtgct taagatgtat ataaacacat atttgntaat 420  
 tagtaaaaat taacataagc ttgagacatt attaggtgct actaaaattg ataaatattt 480  
 acataaatta aaacaatttc aattcttata tgtgtggnag taacttcaaa atctgnggaa 540  
 atattgggta aattgggtact ggnctgnaaa taatttacta aacagaaatt atattgactc 600  
 ctatctggca ttggcttctt aaccatttta aatttaattt acttaatctc ttcagaaata 660  
 gcttaataag g 671

<210> 560

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<211> 491
<212> DNA
<213> Ctenocephalides felis

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catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt      120
tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaaa agtgagattg      240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt      420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt      480
aaaaaaaaaa a                                                                491

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<210> 561
<211> 431
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (15)..(17)
<223> n = unknown

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<220>
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<222> (19)..(20)
<223> n = unknown

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<220>
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<223> n = unknown

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<223> n = unknown

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<220>
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<223> n = unknown

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<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<400> 561  
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 natgaaataa ttaatgaacg actttaggat aattatttat atacattttt ataagaaaag 120  
 actcattatt ttataagtat ttaaatttca aaatcaagtt tttgggatgg agcagaagaa 180  
 taaatatatt tattatatcg cccgactgtt atacgatgag attttcttat gaaagtgggt 240  
 ccctgggtcgt gttaggcaaa aatngacaca tnagaccacc ttcagccaat agtagtgctc 300  
 aataaatgtc ggggctggac aatacatgtc taataaagnt gcaattccac attgncaatt 360  
 atgccttcaa gtcgagcagg tccatagata ttggcacacc agtagccctc aaatttggtg 420  
 gaaacccttg g 431

<210> 562  
 <211> 348  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (144)..(144)  
 <223> n = unknown

<220>  
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 <222> (194)..(194)  
 <223> n = unknown

<220>  
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 <222> (240)..(240)  
 <223> n = unknown

<400> 562  
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 aactaagaag ttaaatcctt tgccagtctg agaagatagg agtaaagtta cttttttcca 120



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gccaaactcca ccattgacaa gagnggcata gcctccttgg ccatttacat attggtccag 180  
ggcacgaaca cagntaattg tgcgattatt tctcgatccc actggtggaa atgacacctn 240  
tctagtaact ttcctgaaaa agcttccact tttggattgg acttgacggt acagcaacac 300  
gtttccataa cttgggtatc ctacttgaaa gtgatgacta ttgttagt 348

<210> 563  
<211> 584  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (161)..(161)  
<223> n = unknown

<220>  
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<222> (197)..(197)  
<223> n = unknown

<220>  
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<220>  
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<220>  
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<222> (515)..(515)  
<223> n = unknown

<400> 563  
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cattgacggc attaacattt ttacctatg agtatgtaca tataatcttac atcgaaatcta 120  
ataacaataa agagttatta attttcatgt cgatgtttta naaaatgatt cagtagcaac 180  
ttctgaattt tctttgnaat tgataaact ttctcaaagt ataattgcat ttcacaacac 240  
acgacggaaa tatggttatg gnccatatga agcaatgctc gttcttctat ccacttgctt 300  
ctgataaatg ttcggtataa agaatgcaat cactccacat gctatcagag atgttcctga 360  
tattaaaaat gttaaactgc aattataatc tagaattatt cctacaacat tgcttccaac 420  
aacacttcct aatcgacca tcattaaaga tatacatact gncattgccc tgagttgtgt 480  
agggtcagat ctactaatgc cgcgtttacc actgncacag caattccgca aaccagcaac 540



cacaaatata aatatgatgc tattgggtaaa tgggtcaataa atgc 584

<210> 564  
 <211> 491  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 564  
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 catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120  
 tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgc ataccacgc caccggcgga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tttttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
 aaaaaaaaaa a 491

<210> 565  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 565  
 cgaaaccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac 60  
 ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag 120  
 atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt 173

<210> 566  
 <211> 665  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (413)..(413)  
 <223> n = unknown

<220>  
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 <222> (582)..(582)  
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<400> 566

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gttgcccaat tgggaccagg tttctttgag tgccttggcc aagtcttttg ctcttcgtg	120
ggcagcttgg agaaccctt tcaagcaaac tctggcttca tcgacatcgg ctgcggtcac	180
aacgcactcc ttggcttgtg ctctgagggc ttcggcggtc tccctggctt ctctccaggc	240
ggccaagcca ttttggcgaa cttgggttgaa ttcatcacgt ttgtcatctc tgcaagcctt	300
gaccttagca cgggcttctt gtgcgtagcc tagagctttt tgggtgttggc ctttaaggca	360
ttcctttgcg gcttcaactca cttttttgct aagtttccct tcaacttctt tgntgaacct	420
ctccaaatct ctatcgactt caggggcaaa tccttgggtt tcgaattcag cggcaatcat	480
atcaattttg ctatcttggc taattcttgc aatgctggtc tcatattcag cagagatgtc	540
atctaccatc ttatctaaga cggcatcttg gtcgaaaaaa gncttgtgca agccctataa	600
aagccaatga tggcaagagc aacaaacact ttggacacca ttttgaaaat gattaattca	660
caata	665

<210> 567  
 <211> 476  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 567	
taaagcttct atatttatat attttaaata atcagaaatt actatagtta atgacatttt	60
gtttgtgctc cttacataaa atacaatttt atacatttta atttttatac atatttttta	120
tatttaattg cacagatcat ttgtgtattt attatattaa ttgactactt tatgataatt	180
tgaatcctaa ttagtctatt caagattggt ttcctgggtt aagccttact tagcaatctc	240
acttttgcac tcttcgccgg gtggcgtggg tatgcatcgc aactccgttt tatcaaagt	300
caagccattt ggacaatcat aatgttttat ttgccatttg ttgttaacca agaaacattg	360
ataatatttt ttacaatctc ttcgatcggg aaaaacgttt tcacttttgc atgcagttct	420
gcacgagaaa gattttgggt caaaccattc gttgacgtcg tcttcacatt tcaagt	476

<210> 568  
 <211> 172  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 568	
cgaaacccga caaaaatgta aaaaagtaaa atttagttgc gtgaattcgt gcagttcacc	60
cgaaatgcag tattgtccgg aaataggagc agatccggtt aaggaatcct gtagccaga	120
tcaagtgtgc gctgatcaaa gtggatatct acagtgcacc actaaagaaa gt	172

<210> 569  
 <211> 466  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 569  
 aagcaagttt tcttgggtgg agttgacaag aagaccaat tctggcgta cttcgcagga 60  
 aacttggcat ctggtggtgc tgctggagcc acatcattgt gcttcgtcta ccacttgat 120  
 ttcgcccgtta ccagattggc cgctgatgta ggtaaaggcg ctggtcaacg tgaattctct 180  
 ggattgggca actgcttgac caaaatcttc aagtctgatg gtctccctgg attgtaccgt 240  
 ggttttggag tatctgttca aggtatcatc atctaccgtg cagcatactt tggattctat 300  
 gacaccgctc gtggaatggt gccagacccc aagaacaccc cattagttat cagctggggc 360  
 attgcacaag cgtcgcaac tgttgctggt attgtgtcat atccattcgg cactgtccgt 420  
 aggcgtatga tgatgcagtc tggacgtgca aagtcagaaa tgttgt 466

<210> 570  
 <211> 221  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 570  
 tatataatct gattctcgat ttgtatcttc ataactgatt ctcagatata cattaccgga 60  
 atgttcatca ttacgtctga gttgtccact aaattcaact ttttttccat tttcttccat 120  
 gacatgtctg aattttatct taccatcaac taaagattcc atgtgagctc ttgcgcaagt 180  
 tccatctcgt tcaaaatgat tttggtatct atattgttcg t 221

<210> 571  
 <211> 365  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 571  
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 aggattcctt aaccggatct gctcctatct ccggacaata ctgcatttcg ggtgaactgc 120  
 acgaattcac gcaactaaat tttacttttt tacatttttg ctcggttttc ggtacagggtg 180  
 taggttcagg agtaggtact actcctgggtg cgggctcatc caatgatgca aatacttctt 240  
 tatttactgt taaaggcgtt ccgtcgacat taaactcacc atcataagcg gtaacgacag 300  
 ataacgccac aaaactaata aaaaccaatg tgatataaaa cattctaata aatatgttac 360  
 ccagc 365

<210> 572  
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 <212> DNA  
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<220>  
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 caatcgcaat gcaaaggttt gctgtctcac aatcctggca ctttatttct cc 112

<210> 573  
 <211> 210  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 573  
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 ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattgggtt 120  
 cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaaat 180  
 ctcgatgggtg acggacattt gaaaccttgt 210

<210> 574  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n = unknown

<220>  
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<220>  
 <221> misc\_feature  
 <222> (87)..(87)  
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<220>  
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 <222> (117)..(117)  
 <223> n = unknown

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<400> 574  
 agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacana 60  
 tataantatg atgctattgt taaatgntca ataaatgcac aaattattcc acaaatnccg 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttccattg tgtctttaca ctcggtcgt 269

<210> 575  
 <211> 425  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 575  
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 taaaagaatt gggatttgtg catttcatga cgggtgcaatc agcttctgac gatttctttt 120  
 tacacatatt tttagaatga tcatatacat agttaggtgg gcattcgaaa acctgacctt 180  
 taccatcttt gcagaataag tatcttgtgc agtctttcgg atctggctga taccctacaa 240  
 ccgcgcgatgt agtttctgcc gtcttacagt tttccccagg ttttgatgag cacatatcat 300  
 ctacacaaaa tggagcatcg gaatttgagt ctctgcaatt gattgttgta attggggttt 360  
 cttgtccagc gcacaacttc aaagtagaaa caatcgtgac aaaatgttcc caactgctta 420  
 ttagt 425

<210> 576  
 <211> 422  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 576  
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 aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt 120  
 acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt 180  
 accatctttg cagaataagt atcttgtgca gtctttcggg tctggctgat atcctacaac 240  
 cgtgcatgta gtttctgccg tcttacagtt ttccccagg tttgatgagc acatatcatc 300  
 tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttgggggtttc 360  
 ttgccagcgc acaacttcaa agtagaacia tcgtgacaaa atgttcccaa ctgcttatta 420  
 gt 422

<210> 577  
<211> 418  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<220>  
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<220>  
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<220>  
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<223> n = unknown

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<222> (365)..(365)

<223> n = unknown

<220>

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<400> 577

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ataangaaaa tttcacatat ttatattcat aantttacta catttctaag ctttcattat      120
aatacccggn gcctgcagct ccactagttt tacttgcatt agaattaata ttgtttggat      180
aatcgtnatt ttttaactn ggatttgtat tanttaaatt tttggcccat ggctgcactt      240
tgccggatgc aaaaaaccaa tatatcacag ctctaacaa atatattcca cttgaaatgt      300
aaaatacaat ttgccacgat gtgagtaaatt catctccaac ctttccatta acantgaaac      360
cantnaattg agggctgatt attcctggca angttgcaaa agtatttgac aatcccat      418

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<210> 578

<211> 423

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (251)..(251)

<223> n = unknown

<400> 578

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aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt      120
acacatattt ttagaatgat catatacata gttagggtggg cattcgaaaa cctgaccttt      180
accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac      240
cgcgcatgta ntttctgccg tcttacagtt ttcccagggt tttgatgagc acatatcatc      300
tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttggggtttc      360
ttgtccagcg cacaacttca aagtagaaca atcgtgacaa aatgttccca actgcttatt      420
agt                                                                                   423

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<210> 579

<211> 308

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (58)..(58)

&lt;223&gt; n = unknown

&lt;400&gt; 579

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atatctagcc aatattgcaa aattcttatac agtgcattgtg aaagaaaaaac tattattntc      60
gaaaatatat caatattatt ataagtaaag aaattgtcat tccgaatgaa cttctgaggt      120
ctaaagaccc attacacaag tcagtgtcgc acatgggtgca atttagatcc cgggctcctt      180
tatttggttaa atctttcttt atttcttcac atgtgactcg ggcagggaca cattctctaa      240
tcacaccttt ttcaatcatg gatttataga aaactctttc tccgatgtct gttgtacact      300
agcgatta                                         308

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&lt;210&gt; 580

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (298)..(298)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (374)..(374)

&lt;223&gt; n = unknown

&lt;400&gt; 580

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acccggtatg aaaaggaaag tgctttttacg tccaaaccgt ggagtttcca atatgccaca      60
tgtcattatt cgtttactat tcttattcctt aatatttata gcactgtcgt aataattctt      120
tgtaaaatga gccatatctc tgttgagagt cataccgtaa tcatatcgac attgatatga      180
ttctccacat aaatcttcag cagcattgat gtcgctactt ctgtttgatg gaagaaaatc      240
tttaggttct ttaaccaggc ttggtataaa tgaggaattt gcataataac tggctgtncg      300
accaaattca cgagtgaaga gtgccgctcc gaggtgttca ttttcacgat ccgcagcatc      360
cagtgcgctg cganatcttt atgaacagat tcaaaactat tgagattaac aggcacaaaa      420
gttccatca                                         429

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&lt;210&gt; 581

&lt;211&gt; 498



&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 581

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atgacttacc tgaaaacacg acctccaagt atggaagtaa atgctattga tatgattata      60
gacctcacia aaaaatataa agttaggtct cacatagtgc atctatcagc agcaggtgct     120
ttaccgcaat tgaaaaaagc gcgctcagag aacgttccac tttcgattga aacttgatcat     180
cattacttaa cctttgctgc tgaagatggt ccagatggac atactgaata caaatgcgct      240
ccaccaatta gagaagaaag taatcaagaa aaattatggc aagctttgga aaacggagat      300
attgatatgg tagtcagtga tcattctcca tcacctgctg cactgaaagg cctgtgcaat      360
ggttgcatcc tgatttctta aaagcttggg gtggaattgc tggatgcag tttggattat      420
ctttattatg gaccggtgct tctaaaagag ctttaaagct catgatgtat ctcgtttatt      480
atctgcggga cctgcgaa                                     498

```

&lt;210&gt; 582

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (391)..(391)

&lt;223&gt; n = unknown

&lt;400&gt; 582

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tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60
catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt     120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180
ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg      240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360
tatgtataaa aattaaaatg tataaaattg nattttatgt aaggaggcac aaaccaaag      420
tcattaacta tagtaatttc tgattattta aaatatataa atatagaagc tttataaaaa      480
aaaaaa                                     486

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&lt;210&gt; 583

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <222> (370)..(370)  
 <223> n = unknown

<220>  
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 <222> (391)..(391)  
 <223> n = unknown

<400> 583  
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 tgtcattgca ccaagcataa attgatgggt ccggtgcata ggttataaaa gaattgggat 120  
 ttgtgcattt catgacgggt caatcagctt ctgacgattt ctttttacac atatttttag 180  
 aatgatcata tacatagtta ggtgggcatt cgaaaacctg acctttacca tctttgcaga 240  
 ataagtatct tgtgcagcct ttcggatctg gctgatatcc tacaaccgcg catgtagttt 300  
 ctgccgtctt acagttttcc ccaggttttg atgagcacat atcatctacn caaaatggag 360  
 catcggaatn tgagtctctg caattgattg ntg 393

<210> 584  
 <211> 325  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 584  
 actgtagtct cgtgaaatth gtttattaaa atccgaaagt aatggataat tcaaaccacc 60  
 taagccgcct acttttctat ccatgttaat ccatgctaag tggctaaaat gtgaatccgt 120  
 tgagcatcca acaacctcag caccgatttc ccgaaactgg cctattgcat cactataagc 180  
 acgaatctcc gttggacaga caaaagtaaa atctaagggg tagaagaaca ataccaaata 240  
 ttgaccttta taatctgtta agctgatctt cttaaaatca ccattgacaa ctgccatacc 300  
 ttcaaaatga ggggctggac tttgt 325

<210> 585  
 <211> 0  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 585  
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<210> 586
<211> 423
<212> DNA
<213> Ctenocephalides felis

<400> 586
gatcggttgc aatttgtcat tgcaccaagc ataaattgat gggtcggtg cataggttat      60
aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt      120
acacatattt ttagaatgat catatacata gttagggtggg cattcgaaaa cctgaccttt      180
accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac      240
cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc      300
tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attggtgtaa ttgggggtttc      360
ttgtccagcg cacaacctca aagtagaaca atcgtgacaa aatgttccca actgcttatt      420
agt                                                                                   423

```

```

<210> 587
<211> 0
<212> DNA
<213> Ctenocephalides felis

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```

<400> 587
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```

<210> 588
<211> 422
<212> DNA
<213> Ctenocephalides felis

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```

<400> 588
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aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt      120
acacatattt ttagaatgat catatacata gttagggtggg cattcgaaaa cctgaccttt      180
accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac      240
cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc      300
tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attggtgtaa ttgggggtttc      360
ttgccagcgc acaacttcaa agtagaacia tcgtgacaaa atgttcccaa ctgcttatta      420
gt                                                                                   422

```

```

<210> 589
<211> 498
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (443)..(443)
<223> n = unknown

<400> 589
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gtgttggatt atgtcttttag tgaccttaaa ttcttcctca ggatcccaaa ttactaaatc      120
agcatccaag ccttctttga tttgtccttt tatgccatcc agtccagtta atttcgcagg      180
tcccgcagat aataaacgag atacatcatg agctttaaag cctcttttag aagcacccgt      240
ccataataaa gataatccaa actgcatacc agcaattcca cccaagctt ttaggaaatc      300
aggatgacaa ccattgcaca ggcctttcag tgcagcaggt gatggagaat gatcactgac      360
taccatatca atatctctgt ttccaaagc ttgccataat tttttttgat tactttcttc      420
tctaattggt ggagcgcatt tgnattcagt atgcatctg gaacatcttc agcagcaaag      480
gttaagtaat gatgacaa                                         498

```

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<210> 590
<211> 463
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (383)..(383)
<223> n = unknown

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<220>
<221> misc_feature
<222> (433)..(434)
<223> n = unknown

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<220>
<221> misc_feature
<222> (443)..(443)
<223> n = unknown

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<220>
<221> misc_feature
<222> (445)..(445)
<223> n = unknown

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<400> 590
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tgaatgatta aatgtaatag attaatacaa ttttagatta ttaaaattgg tctattacta      120
cagtagcaac ctgagcctga aaattaaccg aacaaatttc taacccttat caatgtatag      180

```

FC-8-C3.ST25.txt

```

attttgaaaa ataacataga aatactatatt ttttgatgac tgtaataaaa aaatgtataa 240
atggccatac ctgaaaagat ttctatgtgt attttttatt accttttatt gctgaatgga 300
taaaagataa ctacaatttc ataagctctt ggattaaatt aattttgaat aaatccataa 360
ttataaaata tgttaagtag canattgaaa tatggaacta caaaatgtat acgaaatata 420
acttatataa tannaaatgg acncncctg aaaaaaagc ttg 463

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```

<210> 591
<211> 500
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (67)..(67)
<223> n = unknown

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<220>
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<222> (75)..(75)
<223> n = unknown

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<220>
<221> misc_feature
<222> (124)..(124)
<223> n = unknown

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<220>
<221> misc_feature
<222> (142)..(142)
<223> n = unknown

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<220>
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<222> (149)..(149)
<223> n = unknown

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<220>
<221> misc_feature
<222> (198)..(198)
<223> n = unknown

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<220>
<221> misc_feature
<222> (257)..(257)
<223> n = unknown

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<220>
<221> misc_feature
<222> (378)..(378)
<223> n = unknown

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<220>
<221> misc_feature

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<222> (398)..(398)  
 <223> n = unknown

<220>  
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 <222> (460)..(460)  
 <223> n = unknown

<220>  
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 <222> (485)..(485)  
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 ttacagnatt tcttnaaaaa ctgtcaaata caataagtta acttaaatac atggatgttc 120  
 tganaatgtg gatgagctca anattgtana actgagtttg atctacacaa tttttgccta 180  
 aaaggttcga ctactcanaa agcagccacc cgtgattcca taccgcctcg catttgagaa 240  
 taaaatatat gtataangtt aaataggatt ttaatggaaa aaagccaatt taatacttta 300  
 acattatgaa tatgcatttc caaattattc tataacgaat ttaacctaaa atacaagaaa 360  
 tacatattca taaatatnca tatattttta taaaaangg taacttgtgc aaaaatgaaa 420  
 ttcaaataca cttgggttttg ctaatttaaa ttgggttttan attttctctt tttttggtat 480  
 ggtgnnttatt gcttaattta 500

<210> 592  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 592  
 tttcttttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac 60  
 aggattcctt aaccggatct gctcctatct ccggacaata ctgcatttcg ggtgaactgc 120  
 acgaattcac gcaactaaat ttactttttt tacatttttg ctcggggttc ggt 173

<210> 593  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<222> (143)..(143)  
<223> n = unknown

<220>  
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<222> (145)..(145)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (183)..(183)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (221)..(221)  
<223> n = unknown

<220>  
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<222> (223)..(223)  
<223> n = unknown

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<222> (229)..(229)  
<223> n = unknown

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<222> (241)..(241)  
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<220>  
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<222> (359)..(359)  
<223> n = unknown

<220>  
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<222> (378)..(378)  
<223> n = unknown

<220>  
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<222> (406)..(406)  
<223> n = unknown

<220>  
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<220>  
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<222> (423)..(423)  
<223> n = unknown

<400> 593

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tttttttttt tttttttttt tttttttttc tgaacggccc aaacgattta tttttattaa	60
aaagatacat gnaatttcat aaagcttcta tttttatata ttttaaataa tcagaaatta	120
ctatagttaa tgacattttg ttngngctcc ttacataaaa tacaatttta tacattttta	180
ttnttataca ttttttttat atttaattgc acagatcatt ngngtattna ttatattaat	240
ngactacttt atgataattt gaatcctaata tagtctattc aagattgttt tcctgggtta	300
agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgna	360
actccgtttt atcaaagngc aagccatttg gacaatcata atgtgntatt tgccatttgc	420
ngntaaccac gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt	480
ccttttgcac gcagttctgc	500

<210> 594  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 594	
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aaagatacat gtaatttcat aaagcttcta tttttatata ttttaaataa tcagaaatta	120
ctatagttaa tgacattttg tttgtgctcc ttacataaaa tacaatttta tacattttta	180
tttttataca ttttttttat atttaattgc acagatcatt tgtgtattta ttatattaat	240
tgactacttt atgataattt gaatcctaata tagtctattc aagattgttt tcctgggtta	300
agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgca	360
actccgtttt atcaaagtgc aagccatttg gacaatcata atgttttatt tgccatttgc	420
tggttaaccac gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt	480
cactttgcac gcagttctgc	500

<210> 595  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (349)..(349)  
 <223> n = unknown

<400> 595	
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tggtgattta tttcatttaa aggcaatgta tcgggtttaat gggttttaaat ttatttttta	120



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tttaatatta aatagattaa ttaaaaatct ataaagtgat aagaggcctg atatccataa 180
tattattgaa tattaagaag tgacggatag atctgataat gtagtagttg ttatagacaa 240
tttacttaat aattatgagt tgcataatta tgcaatgatt tatcactatt atttattcaa 300
cattttatatt aactgcttgc aacttttaat aaaacgcatt ttttattgnt ttaagtataa 360
atcttatttag ggcacaatat gaaaataaaa ataagaactt tatacaaaag ctttttttat 420
acaatatgct tcttgcgcta ttaagttaag aaattttatt tatgcttgta aaaaaacaat 480
aatgcttta tttattaa 498

```

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<210> 596
<211> 498
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (482)..(482)
<223> n = unknown

<400> 596
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aacttgata taagtgaagt ttaccaaaga tgtgtggggc ctacatatcc ggaatgttta 120
attacacctc tgccctctcc aattgttccg actactacga ctacgacaac tacaccagca 180
ccgcccctc ttttttcatg cgtgcaggaa gggatgttta tagatcccta tgacagcact 240
tgcaaaggat actacaaatg tgctttgaaa gcaggcggag gattcagtgat agcgcgttac 300
aattgtcctg gttctactta cttcagcagc acgtatcagc aatgtgtggt cgcttccttt 360
cggagtgcct aagaaatcct cagcgccttg gcaaccacct acgcccggcg catatacaac 420
tgcgtgcaga gcggtcattt gcagatccag cagacaaaac atgcaaagta ttttttgaat 480
ngtggagact ctctggag 498

```

```

<210> 597
<211> 500
<212> DNA
<213> Ctenocephalides felis

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<400> 597
ccggcccgcc gtgtgctgga agccgggtctt gtcgatcagg atgatctgga cgaagagcat 60
caggggctcg cgccagccga actgttcgcc aggctcaagg cgcgcatgcc cgacggcgag 120
gatctcgtcg tgacctatgg cgatgcctgc ttgccgaata tcatggtgga aaatggccgc 180

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ttttctggat tcatcgactg tggccggctg ggtgtggcgg accgctatca ggacatagcg	240
ttggctaccc gtgatattgc tgaagagctt ggcggcgaat gggctgaccg cttcctcgtg	300
ctttacggta tcgccgctcc cgattcgcag cgcctcgcct tctatcgcct tcttgacgag	360
ttctttctgaa ttgaaaaagg aagagtatga gtattcaaca tttccgtgtc gcccttattc	420
cctttttttgc ggcattttgc ttctgttttt gctcaccag aaaccgctgg tgaaagtaaa	480
agatgctgaa gatcagttgg	500

<210> 598  
 <211> 240  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (41)..(41)  
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<220>  
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 <223> n = unknown

<220>  
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 <222> (99)..(99)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (188)..(188)  
 <223> n = unknown

<220>  
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 <222> (196)..(196)  
 <223> n = unknown

<400> 598	
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acataactac tatttatatat taanaatgat ttttaaagna atcaataata naaagccttg	120
attacttggga aatgatatta acactaaciaa cttggagttt cataacttga ataaataata	180
aattttgnaa tggttntatc aaacaagttt atgctttttt acaacataat caaaagttac	240

<210> 599  
 <211> 167  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 599  
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 ttatctgtcg ttaccgctta tgatgggtgag tttaatgtcg acggaacgcc tttaacagta 120  
 aataaagaag tatttgcac attggatgag cccgcaccag gagtagt 167

<210> 600  
 <211> 380  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 600  
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 catgcaaaag tgaaaacgtt ttttccgac gaagagattg taaaaaatat tatcaatgtt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaac ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg 380

<210> 601  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

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 ttgaatgatt aaatgtaata gattaatcaa attttagatg attaaaattg ttctattact 120  
 acaatagcaa cctctgcctg aaaattaacc gaacaaactt ctaacatcct tattaatgta 180  
 tagatTTTTga ataataacat agaaattata ctatTTTTTT gatgactcta ataaaaaaaa 240  
 tgtataaatg gccatgcctg atatTTTTTT gataacctta atgaaaaaat gtttaaatgg 300  
 ccatgtctga aaagatttct atgtgtatTT ttttgTTaac attttattgt tgaatggata 360  
 aaagataaat acaattttat aagctgtttg gataaattaa ttttgaataa atccataatc 420  
 atagaatatg ttaagtagca aattaaaata tggaccacaa accacaaaat gtatacgaaa 480  
 tataacttat atgatata 498

<210> 602  
 <211> 377  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (362)..(363)  
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 catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgc ataccacgc caccggcgga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa aaaaaaaaaa 360  
 annaaaaaaaa aaaaaaa 377

<210> 603  
 <211> 384  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 603  
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 catacaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgc ataccacgc caccggcgga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaaa 384

<210> 604  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

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 tataaatatg atgctattgt taaatgttca ataatgcac aaattattcc acaaatcccg 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180

attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
tcttccattg tgtctttaca ctcggtcgt 269

<210> 605  
<211> 500  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
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<223> n = unknown

<220>  
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<222> (400)..(400)  
<223> n = unknown

<220>  
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<222> (491)..(491)  
<223> n = unknown

<400> 605  
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tttgtggtcc atattttaat ttgctactta acatattcta tgattatgga tttattcaaa 120  
attaatttat ccaaacagct tataaaattg tatttatctt ttatccattc aacaataaaa 180  
tgттаacaaa aaaatacaca tagaaatctt ttcagacatg gccatttaaa cattttttca 240  
ttaaggntat caaaaatata tcaggcatgg ccatttatac atttttttta ttagggcatc 300  
aaaaaaatag tataatttct atgttattat tcaaaatcta tacattaata aggatgtag 360  
aagtttggtc ggttaatttt caggcagagg ttgctattgn agtaatagaa caattttaat 420  
catctaaaat ttgattaatc tattacattt aatcattcaa tagtaaattt ccttttggaa 480  
tttcgaatgg ntgccattac 500

<210> 606  
<211> 343  
<212> DNA  
<213> Ctenocephalides felis

<400> 606  
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tttccatga gctgcttttg gcggtgcctt tgggtgcctct ggcataccgt tttcttggct 120  
ggagacaacg tctgaagtca tttccattcc ttggttcaaa tcaccatttg atttagcaga 180

atgaggagct tcattctttat ttttcttggt tgccatcaaa tataatgggt tgcccaagag 240  
 catgagcgga atacagcaga gcccaattaa cacaaatatt ttttgaattt gctgttgtcc 300  
 ttcaaacata aattcatcgc aatgttctgc tggagatcct tgc 343

<210> 607  
 <211> 439  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (84)..(84)  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<220>  
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<400> 607  
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 actatagtta atgacatttt gttnngctc cttacataaa atacaatttt atacatttta 120  
 atttttatac atatttttta tatttaattg cncagatcat ttgggtattt attatattaa 180  
 tngactactt tatgataatt tgaatcctaa ttagnctatt caanattgnt ttcttggttt 240  
 aagccttact tagcaatctc acttttgcac tcttcgccgg gtggcgtggg tatgcatcgc 300  
 aactccgttt atcaaagtgc aagccattng gacaatcata angnttnatt tgccatttgn 360  
 tgtaaccaa gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt 420  
 ccttttgcac gcagtctgc 439

<210> 608  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 608  
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 aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgac gaatcaaatt 120  
 gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga 180  
 tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac 240  
 aaccttggtt cgagttcaag ataaattagc tgctttgtgg ccatttttgg gtatctgtgc 300  
 tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca acaaagctga 360  
 aatggaggag agtgatacag atcaaagtcc agatcgaaaa aatactcctg atcacatgaa 420  
 ggacactgat gtgaggcata ggaagtaaac caaaaattta atctagttga ataaaagtta 480  
 atgcaccaga gtagaagt 498

<210> 609  
 <211> 500

<212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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<220>  
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agaaattact atagttaatg acattttggt tnggtcctt acataaaaata caattttata      180
cattttaatt ttatacata ttttttatat ttaattgcac agatcatttg ngtattttatt      240
atattaattg actactttat gataaattga atcctaatta gtctattcaa nattgggtttc      300
ctggtttaag ccttacttag caatctcact ttgcattct tgcgccgggtg gcgtgggtat      360
gcatcgcaac tccgtttatc aaagtgcaag ccatttggac aatcataatg ntttattttgc      420
catttgntgn taaccaagaa acattgataa tattttttac aatctcttcg atcggaaaaa      480
acgttcactt ttgcatgcag                                     500

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<210> 610  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis



<220>  
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 <222> (146)..(146)  
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<220>  
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 <222> (224)..(224)  
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 actatagtta atgacatttt gtttgngctc cttacataaa atacaatttt atacatttta 180  
 atttttatac atatttttta tatttaattg cacagatcat ttgngtattt attatattaa 240  
 ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattggg ttccctgggtt 300  
 aagccttact tagcaatctc acttttgcac tcttcgccgg gtggcgtggg tatgcatcgc 360  
 aactccgttt tatcaaagtg caagccattt ggacaatcat aatgttttat ttgccatttg 420  
 ttgttaacca agaaacattg ataatatatt ttacaatctc ttcgatcgga aaaacgtttc 480  
 actttgcatg cagttctgca 500

<210> 611  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

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<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

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 aaataatcag aaattactat ngntaatgac attttggttg ngctccttac ataaaataca 120  
 attttataca ttttaatttt tatacatatt ttttatattt aattgcncag atcatttgng 180  
 tattttattat attaattgac tactttatga taatttgaat cctaattagt ctattcaaga 240  
 ttgnttttct ggtttaagcc ttacttagca atctcacttt tgcattcttc gccgggtggc 300  
 gtgggtatgc atcgcaactc cgttttatca aagtgcagc catttggaca atcataatgn 360  
 tttatttgcc atttggtggt aaccaagaaa cattgataat attttttaca atctcttcga 420  
 tcggaaaaaa cgtttcactt ttgcatgcag ttctgcacga naaanatttg ggcaaaccat 480  
 cgtgacgcgc ttcacatttc 500

<210> 612  
 <211> 104  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 612  
 aatccaggga gaccatcaga cttgaagatt ttggtcaagc agttgccc aa tccagagaat 60  
 tcacgttgac cagcgccttt acctacatca gcggccaatc tggt 104

<210> 613  
 <211> 277  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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<220>  
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 angnattggg nctatatggt cttatcgtag ccactctacct ctacaccaa taaacaaatt 120  
 attatggatt tcaagataca caagtcgcct gcctcccaa tcccctaata tatatgcagc 180  
 agtgcagnct gtctattatt tntgccactc acacttaaaa atatagtggc tgtaccgata 240  
 tttatattat attgggttat acagaaagca ctgttgt 277

<210> 614  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 614  
 cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt 60  
 gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt	240
cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca	300
gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt	360
tattagattc gatgtaagat atatgt	386

<210> 615  
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 <212> DNA  
 <213> Ctenocephalides felis

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<220>  
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<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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<223> n = unknown

<220>

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<222> (273)..(273)

<223> n = unknown

<400> 615

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ttngatatattt anggatttta aataatcaga aattactata gntaatgaca ttttgnnngt      120
gctccttaca taaaatacaa tnttatacat tnnaattttt atacatattn tttatatattta      180
attgcacaga tcatttgtgt atctattata ttaattgact actttatgat aattngaatc      240
ctaattagtc tattcaagat tgttttcctg gtntaagcct tacttagcaa tctcactttt      300
gcattcttcg ccgggtggcg tgggtacgca tcgaaactcc g                          341
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<210> 616

<211> 221

<212> DNA

<213> Ctenocephalides felis

<400> 616

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tatataatcc gattctcgat ttgtatcttc ataactgatt ctgagatgc cattaccgga      60
atgttcatca tcacgtctaa gctgtccact aaattcaact ttttctccat tttctttcat      120
gacatgtctg aattttatatt ttccttcaac taaagattcc atgtgagctc ttgcgcaagt      180
tccatctcgt tcaaaatgat tttggtatct atattgttcg t                          221
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<210> 617

<211> 173

<212> DNA

<213> Ctenocephalides felis

<400> 617

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tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac      60
aggattcctt aaccggatct gctcctatatt ccggacaata ctgcatttcg ggtgaactgc      120
acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggt              173
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<210> 618

<211> 422

<212> DNA

<213> Ctenocephalides felis

<400> 618

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taataagcag ttgggaacat tttgtcacga ttgttctact ttgaagttgt gcgctggaca      60
agaaacccca attacaacaa tcaattgcag agactcaaatt tccgatgctc cattttgtgt      120
```

FC-8-C3.ST25.txt

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agatgatatg tgctcatcaa aacctgggga aaactgtaag acggcagaaa ctacatgcg 180
ggttgtagga tatcagccag atccgaaaga ctgcacaaga tacttattct gcaagatggt 240
aaaggtcagg ttttcgaatg cccacctaac tatgtatatg atcattctaa aaatatgtgt 300
aaaaagaaat cgtcagaagc tgattgcacc gtcatgaaat gcacaaatcc caattctttt 360
ataacctatg caccggaccc atcaatttat gcttggtgca atgaccaatt gtaaccgatc 420
gt 422

```

```

<210> 619
<211> 493
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (462)..(462)
<223> n = unknown

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<220>
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<223> n = unknown

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acttctggat atttccatcg caattatcaa agggctttga aaaacagatg tagatgttag 180
tgaaccaaga aaagccgctg ttataaaaac aataaaccac ctggaagtaa atgctgtaat 240
tagtcttccg gtgacgattg tgatgagact taagtaaaat actggctctt ttccaatcct 300
atctccta atgtccaaaaa taaatgtgcc tatgacttcg cctgcacgtc caatagcaaa 360
tgtattagtt acatagagtt ctctatcaca aaccagtcct tgatctgacg gaccggttga 420
taaataccat gttctgcata ttcataacca tgctgacaag gnattatttg actttcaatc 480
ntattgctct tca 493

```

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<210> 620
<211> 350
<212> DNA
<213> Ctenocephalides felis

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<400> 620
agcaaaacca agtgatattg aatttcattt ttgcacaagt tacctttttg tattaataa 60
tatgtatatt tatgaatatg tatttcttgt attttaggtt aaattcgta tagaataatt 120

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FC-8-C3.ST25.txt

tggaataca tattcataat gctaaagtat taaattggct tttttccatt aaaatcctat	180
ttaacattat acatatat ttttgtcaaa tgtgaggcgg tatggaatca cgggtggctg	240
ctttctgagt agtcgaacct tttaggcaaa aattgtgtag atcaaactca gttctacaat	300
cttgagctca tccacattct cagaacatcc atgtatttaa gttaacttat	350

<210> 621  
 <211> 251  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (70)..(70)  
 <223> n = unknown

<400> 621	
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aaaagttacn ggaaacgcta actgaagctc acgtattcgg cagggatcag gtgttctgga	120
gcttaccgaa aaaaggtgta tcaaagtcta cagatacggc cgtcaagaaa ttatcacaag	180
aagactgtta aatagttata atttgtattg ttatacatat gtttcttata taataaaatt	240
atattttattg t	251

<210> 622  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 622	
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catgcaaagg tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt	120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatagcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaata	480
catgtatctt tttaataa	498

<210> 623  
 <211> 131

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 623

cttttgcattg taggatccaa tggatcgca aatagtccaa ctcttggaca aatgaatggt 60

tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc 120

aaagacaatg t 131

&lt;210&gt; 624

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (381)..(381)

&lt;223&gt; n = unknown

&lt;400&gt; 624

tgaaatgtga agacgacgct aacgaatggt ttgacccaaa atctttctcg tgcagaactg 60

catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180

ataaaacgga gttgcgatgc ataccacgc caccggcgca agaatgcaaa agtgagattg 240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360

tatgtataaa aattaaaatg nataaaattg tattttatgt aaggagcaca aacaaaatgt 420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480

aaaaaaaaa 489

&lt;210&gt; 625

&lt;211&gt; 230

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (69)..(69)

&lt;223&gt; n = unknown

&lt;400&gt; 625

tttttttttt tttttttttt ttttttgtgt aaaatattta ttgaagtata attactataa 60

ttttataana caatcaagta ctattttcat atatatcttg ccatttatca aaatcagtc 120

ctttaatatt tttcttcac cttcatcta cttttaaggc caattccaag ctcatctt 180



ttctccagct tccaacttga ccttttctca taaattctct gtcagttggt

230

<210> 626  
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<212> DNA  
<213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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<223> n = unknown

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<223> n = unknown

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<220>  
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 <223> n = unknown

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<220>  
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 <223> n = unknown

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 ttaattttta tacatatattt ttatattnaa tngcacanat catttgtgna tttattatat 180  
 taattgacta ctttatgana attcgaatcc taattagnct attcaagatt gttttcctgg 240  
 ttttaagcctt acttagcaat ctactttttg cattcttcgc cgggtggcgt gggatatgcat 300  
 ngtaactccg ttttatcaaa gtgcaagcca tttggacaat canaaggntt tatttgccan 360  
 tngntggaac caagaaacat tgataatatt ttttacaatc t 401

<210> 627  
 <211> 466  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 627  
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 ccgccttcct ggggcctaata atatgggata agacattacc ctatgatgct gatctcaagt 120  
 atgtggatct agatgagttc ctttctgaga atggaatccc tgtggatgga atgggtcaca 180

## FC-8-C3.ST25.txt

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gcggtgggatt ggggtccatg agtcacttag gtggcttagg aggatctcat aggtctgagg      240
ctttagggtca ccctttgagt ggtatgccaa cacatctaac aaagattgaa agatcacctt      300
caccttccga atgcatgagc cgggatacta tgaatcctgc ttctccagct gattcaacat      360
tctcaatggc ttcttctggg cggagatddd gatcctcgaa cacgggcttt ttcggatgaa      420
gaactaaagc ctcaacctat gatcaagaaa agtagaaagc agtttg                        466

```

```

<210> 628
<211> 498
<212> DNA
<213> Ctenocephalides felis

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<220>
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<223> n = unknown

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aacatcagat tggggatgtc attgaaacaa aagttaaaga cagattcatg aattactgaa      180
aatctgaaaa acaaactgaa ggaatttggt gcacatttat ctgacctccc aacatcttta      240
aatatgatct agtattaagc ataagaattc aaaatataca acctttccgt taccaatcta      300
atgtagacaa aaagcaatta ctggcaatat ttaaaactta ttttgcatat ggataagtcc      360
tattgtctag ccaacaaaca aaaatgctga caatctagta tgtctgaaaa acatcaaaag      420
ctgttctttt ggaaacacat caaacaagat attaaacaaa ccttttctat aaagctctaa      480
aaataaaaaa aagtagaa                                                    498

```

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<210> 629
<211> 498
<212> DNA
<213> Ctenocephalides felis

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<220>
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<223> n = unknown

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<220>

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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (482)..(482)  
 <223> n = unknown

<400> 629  
 tgaaatgtga agacgacgtc aacgaatggt ttgaccnnaa atctttctcg tgcagaactg 60  
 catgcaaagg tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgc ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaanatg tataaaattg nattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattattaaa atatataata tagaacttta tgaaatacnt 480  
 gnatctttta ataaaata 498

<210> 630  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 630  
 acatacacca aaatatctaa aactaaatat ttggctctta caattgataa tttgtattag 60  
 aagcatccaa tgaagcatct tgtaaacac tatgcatctg tgaaatctat gttgattttg 120  
 aacatcagat tggggatgac attgaaacaa aagttaaaga cagattcatg aattactgaa 180  
 aatctgaaaa acaaactgaa ggaatttggt gcacatttat ctgacctccc aacatcttta 240  
 aatatgatct agtattaagc ataagaattc aaaatataca acctttccgt taccaatcta 300  
 atgtagacaa aaagcaatta ctggcaatat ttaaacttaa ttttgcatat ggataagtcc 360  
 tattgttttag ccaacaaaca aaaatgctga caatctagta tgtctgaaaa acatcaaaag 420  
 ctgttctttt ggaaacacat caaacaaagt attaaacaaa ctttttctat aaagctctaa 480  
 aaataaaaaa aagttaga 498

<210> 631  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (360)..(360)  
 <223> n = unknown

<400> 631  
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 gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttataacc gaacatttat 180  
 caaaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcgattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn 360  
 tattagattc gatgtaagat atatgt 386

<210> 632  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (69)..(69)  
 <223> n = unknown

<400> 632  
 gaggagactt tgttttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat 60  
 tgaatgatna aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta 120  
 caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat 180  
 agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaaat 240  
 gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc 300  
 catgtctgaa aagatttcta tgtgtatfff ttgtttaaca ttttattggt gaatggataa 360  
 aagataaata caattttata agctgttttg ataaattaat tttgaataaa tccataatca 420  
 tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat 480  
 atacttatat gatatatg 498

<210> 633

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 633

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taatgtcgta gaaggtgaaa aactgcgagt tgtttgcaca gttgtaggca aacctacacc      60
aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgata gaatcaaatt      120
gtagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga      180
tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac      240
aaccttgggtt cgagttcaag ataaattagc tgctctgtgg ccatttttgg gtatctgtgc      300
tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca acaaagctga      360
aatggaggag agtgatacag atcaaagtcc agatcgaaaa aatactcctg atcacatgaa      420
ggacactgat gtgaggcata ggaagtaaac caaaaattta atctagttga ataaaagtta      480
atgccacagag tagaagta                                     498

```

&lt;210&gt; 634

&lt;211&gt; 395

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 634

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atattatatt cacaataatc taatcttcca agttgcggaa tgcttgcgtg aaatcctcat      60
gtaattgata aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact      120
tcattgagga caactgatat agaattattgc ccatagcatc tctaattgga ttccaggtaa      180
tcttgttttc actttgtgca gtagattcaa ctgcgtattt tgccatatca tagaaagcaa      240
taatgttacg taacatacca actgttttat agaaggggca gaaacgatca tatgatgagt      300
agctgttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt      360
cagtttccgc caaggaggct ttaccaacca attgt                                     395

```

&lt;210&gt; 635

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (360)..(360)

&lt;223&gt; n = unknown

&lt;400&gt; 635

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cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60

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FC-8-C3.ST25.txt

gttggttgga gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta	120
atatcaggaa catctctgat agcatgtgga gtgattgcat tctttataacc gaacatttat	180
cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttcctg	240
cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca	300
gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn	360
tattagattc gatgtaagat atatgt	386

<210> 636  
 <211> 354  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 636	
ccgggcaggt acaatacttt gaatacttca taaagaccga atttgcaaag accctgcatg	60
gagtatccaa caaagggttg agcccaacct ttagcaagac ctctagcacc atcttccgct	120
agagttactt tgaatccatt gaatactgat ttgtattttg caggatctac ttgaatacgg	180
catttcacta aatcaagtgg aacgaccatg gtgtgtgtta caccgcaaga aataattcct	240
ccaaatccgc aaagagcaaa gtaatgacca gatccaaagg cacaggaatc tcctgttgca	300
tctgaggtgg aggctgccat tgttgccaat gatttagatt cagcttcaca ttgt	354

<210> 637  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (69)..(69)  
 <223> n = unknown

<400> 637	
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gattaccanc acgtgctttt cacattggta ggccaagaat tcagcagctg tcaaagccag	120
acgtggggta atgatacgtt caatagttgg atcattggcc aagttcaaga acaggcacac	180
attctccatg gaaccattct cctcgaaatc ttgtttgaag aatctggcag ttccatggt	240
gacaccata gcggcgaaca caatggcaaa gttatcctca tggcatcca aaactgattt	300
tcctgggatt ttaactaaac ctgcttgcc acagatctgg gcagcaattt cattgtgggg	360
cagaccagct gcagagaaaa taggaatctt ctgtccacga gcaatggagt tcatcacatc	420
aatagcagag ataccagttt ggatcatttc ctcaggatag atacgagacc agggattgat	480

gggttgacct tggatgtc 498

<210> 638  
 <211> 479  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 638  
 ttattgcagt caataaaaat agatacatag tagctgatca taaattatta attgaaaatt 60  
 taataatttt ttatttggtta tttaaattag cattcgagtc cgccctcacc tccagctcca 120  
 ccgatcatgt ccaaaatttc ttgaagagtg aattggctca aaattggatt gataagatcc 180  
 ttgacagctg agtctacggt attggaaaatt aattcttgggt tttctttgat caattctgggt 240  
 aaagtttcgt ttaagaaagc gttgatttca cttgtgagtt ctgggctcgtt cattattcca 300  
 tcgatagcga acttcatatc tccaacagtg agcaaaagtt ttaattctgc taattcaacg 360  
 tatgtaagat ttttcaaacg caatttgata tgtccggatg ctgtgatttg gtttaattga 420  
 atatcgaaag gccttttccg aataatgggt cagctgcaac caagtttgca atgaggtcg 479

<210> 639  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 639  
 aacaatatgt aaccgattcc acactatttt taacagaatt caaaattcgt aattgtcaag 60  
 aaattatttc atctctacag aatgttttat gtgatcaaga agtcaagtat attccaaagc 120  
 ggaaatttgg gttcaaaaat aaaaagctct tattaaatga taaaattatt ggtaaggact 180  
 tggatacaaa aagtaaagat acgacagatt tatgtctcaa taagtgtaat gattggaatt 240  
 tatcagaatg tggatttcat ttaaaggaga atgaaattct atatctttat gctgaacagg 300  
 ttaataaaaa ggatattaca ttgagtagca tatataaatg cactgtaata attactggct 360  
 atcctaatac tcttcacatg tcaaacattc aagacagcac tgtgatttgt ggtcctgtaa 420  
 ctacatcaat atttgctgat aaatgcatta atagtaagtt agtcattgct tgccacaatt 480  
 gagactacat tcttctaa 498

<210> 640  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 640  
 aataaatata attttattat ataagaaaca tatgtataac aatacaaatt ataactattt 60



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aacagtcttc ttgtgataat ttcttgacgg ccgtatctgt agactttgat acaccttttt 120
tcggtaagct ccagaacacc tgatccctgc cgaatacgtg agcttcagtt agcgtttccg 180
gtaacttttg gtgtaaagtt tccggcaaga acattccgga agtcgcgccc accatcatca 240
ttacggaaag tacagcgtac ggatatctgg cgtcatatgt ggttcccaag tatacaatgt 300
atgggcctaa tactcctaat gcatttgaaa ctatagttcc aatggaaatt cctgtctgct 360
caaacagggt ggatatgttt ccattgcttg cagattcaca acataaaacg tgatgcttat 420
gcaaaatttc attaccacgg ctaacagtgg gaccaaattc tggagggatt catcattggc 480
aatgcatata agaatgga 498

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<210> 641
<211> 491
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (8)..(8)
<223> n = unknown

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<220>
<221> misc_feature
<222> (14)..(14)
<223> n = unknown

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<220>
<221> misc_feature
<222> (61)..(61)
<223> n = unknown

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<220>
<221> misc_feature
<222> (65)..(65)
<223> n = unknown

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<220>
<221> misc_feature
<222> (152)..(152)
<223> n = unknown

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<220>
<221> misc_feature
<222> (176)..(176)
<223> n = unknown

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<220>
<221> misc_feature
<222> (330)..(330)
<223> n = unknown

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<220>  
 <221> misc\_feature  
 <222> (355)..(355)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (384)..(384)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (458)..(458)  
 <223> n = unknown

<400> 641  
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 ngaanttact atagttaatg acattttggt tgtgctcctt acataaaata caattttata 120  
 cattttaatt tttatacata ttttttatat tnaattgcac agatcatttg tgtatntatt 180  
 atattaattg actactttat gataatttga atcctaatta gtctattcaa gattgttttc 240  
 ctggtttaag ccttacttag caatctcact tttgcattct tcgccgggtg gcgtgggtat 300  
 gcatcgcaac tccgttttat caaagtgcac gccatttgga caatcataat gtttnatttg 360  
 ccatttggtg ttaaccaaga aacnttgata atatttttta caatctcttc gatcggaata 420  
 aacgttttca cttttgcatg cagttctgca cgagaaantt ttgggcaaac cattcgtgac 480  
 gcgcttccat t 491

<210> 642  
 <211> 331  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (30)..(30)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (71)..(71)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (82)..(82)

<223> n = unknown

<220>

<221> misc\_feature

<222> (108)..(108)

<223> n = unknown

<220>

<221> misc\_feature

<222> (205)..(205)

<223> n = unknown

<220>

<221> misc\_feature

<222> (249)..(249)

<223> n = unknown

<220>

<221> misc\_feature

<222> (265)..(265)

<223> n = unknown

<220>

<221> misc\_feature

<222> (294)..(294)

<223> n = unknown

<220>

<221> misc\_feature

<222> (297)..(297)

<223> n = unknown

<400> 642

atggaatagt gctaaccaaa gcaaagatan accaatntcg cgtcgcccac atcagtaacg 60

gcataagaat nattccactg gnccaccgga tggactgcat catggcantg tgtgctctat 120

cttcacttct ggatatttcc atcgcaatta tcaaagggct ttgaaaaaca gatgtagatg 180

ttagtgaacc aagaaaagcc gctgntataa aaacaataag ccaactggaa gtaaagtctg 240

taattagtnt tccggtgacg attgngatga gacttaagta aaatactggt cttnttncaa 300

tcctgtctcc taattgacca aagataaatg t 331

<210> 643

<211> 489

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (387)..(387)

<223> n = unknown

<220>

<221> misc\_feature

&lt;222&gt; (392)..(392)

&lt;223&gt; n = unknown

&lt;400&gt; 643

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tgttgacacg attttttcgag ttttaactga ccgatccact taaaatgttc agagagtctt      60
gtttatagac ctatctatag cccgaactag gattatcccc caattccaat tttcactatt      120
tttaaaacat tcgagaaact aaaaaaacag taaaaaaaca cttttttttt aaatagtcga      180
aaatttgtaa acaaacattt ttttactcat cgccagttca ggcgattgcg acatcattgt      240
agattaataa tcttttttatt ttttgcattt ccgatggcta ggagggctga aatcatgtca      300
agactgaagt gccaattttt tgagaccacc cacttcatca gctgccagtt tttacaattt      360
tcaacttttt tatttttttaa tttttgnttt gnattttaat aatattaata aacaagtggg      420
aaaaaaacgg atagtaaaaa cattcattgg tttctttttac gacactttaa aaatgaccta      480
aaattcatc                                     489

```

&lt;210&gt; 644

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 644

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aattgttggt ggtcaacttg gtcactgatg gtttaccagc tactgcctta ggtttcaacc      60
caccggactt ggacattatg gacaaaccac cacgtaaagc tgatgaaggt cttatctctg      120
gatggttggt cttcagatac atggctattg gaggggatgt aggtgctgct actgttggag      180
ctgccagttg gtggttcatg tattctccat atggtcaca aatgagctac tggcaactta      240
ctcatcactt gcaatgtctt ggtgggtggg acgaatttaa ggagtcgatt gtggtatttt      300
cactgaccct catccaatga ccatggcttt gtctgt                                     336

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&lt;210&gt; 645

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (94)..(94)

&lt;223&gt; n = unknown

&lt;400&gt; 645

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cttcggcttt tcgcggtagc gttccgaggt gccattgaa gatttaaaag gccgcagtaa      60
tttgactgtg caaaggtagc ataatcaata gttntttaat tgaaagctgg aatgaatgat      120
tgaatgaaat attaactgtc ttaataaaaat tggtatagaa ttttaatttt atgttaaaaa      180

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FC-8-C3.ST25.txt

gcgtaaatat	tattaaagga	cgagaagacc	ctttaaagtt	ttatatataa	atatagatta	240
attttaagaa	tattattaaa	tttatttata	ttaatataatt	ttattggggt	gataggaaaa	300
tttataaaac	ttttttttta	ttaaaacata	aataattgaa	taattgatcc	ataaattatg	360
attaaaagat	taagttactt	aagggataac	agcgtaatta	tttttaagag	aacatatcga	420
caaaatagat	tgcgacctcg	atgttggatt	aagataattt			460

<210> 646  
 <211> 394  
 <212> DNA  
 <213> Ctenocephalides felis

<400>	646	
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tacaaactat	aaaagggtatt	aaaattattg
		60
gagttccttg	aggcactaga	tgactaaata
tatgggtata	attattaatt	catcctaata
		120
atataaatct	taatcataaa	ggaagtctta
atcttaaagt	taaagttaaa	tgactagtct
		180
ttgtaaaaat	gtaattaaat	aatcctaaaa
aattattaaa	taaaataaat	gaaaataatc
		240
taataaatat	aaaagttctt	cctataggat
tatattttat	aagtaattta	aattcattat
		300
gaagtgttat	aataatcttt	aatcaaatat
tggtgtatcg	ggacggaatt	attcaaaata
		360
tatttggat	aaataatagt	cctaattccc
cccg		394

<210> 647  
 <211> 368  
 <212> DNA  
 <213> Ctenocephalides felis

<400>	647	
agtaaaactac	cacacaacaa	taatttgtac
aatttgtaac	tttatcaact	ctttacagca
		60
tttattgtaa	gttgtaacaa	acacttcatt
tatccgtaag	gataatgtga	actaaatcat
		120
aattcgtttt	agtattataa	gtccgtgcta
ttgttagtta	attatcgata	ggatctttgt
		180
gttattcatt	tgaggaaaaa	taggcggagg
ccgatatcat	caaattgctg	tggtgccttc
		240
aaggatttac	caacttataa	taaataatag
aagtccaaat	catttattaa	ttaagaacgc
		300
gtcatcttgc	aatttgatta	ctctgtgata
agagtaacga	gtaaaagtta	catatacaat
		360
taaacagt		368

<210> 648  
 <211> 332  
 <212> DNA  
 <213> Ctenocephalides felis

FC-8-C3.ST25.txt

<400> 648  
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gagttccttg aggactaga tgactaaata tatggttata attattaatt catcctaata 120  
atataaatct taatcataaa ggaagtctta atcttaaagt taaagttaaa tgactagttc 180  
ttgtaaaaat gtaattaaat aatcctaaaa aattattaaa taaaataaat gaaaataatc 240  
taataaatat aaaagttctt cctataggat tatattttat aagtaattta aattcattat 300  
gaagtgttat aataattttt aaggaaacta tg 332

<210> 649  
<211> 357  
<212> DNA  
<213> Ctenocephalides felis

<400> 649  
atatacatat ttatgatcct tctattagta gattatataa ttaggttttt gtctttgaac 60  
tgattatctg caaataacgt aaattagaaa acgcacaaga gaaatgttt atatgattcc 120  
gatatttact cactattttat ttttcacaaa gcatagaatt agttttttata tgatgcttga 180  
tcaataatgg tgtttgaaat tttaaaatta atatacgaag ctattttaata tcacgcaaag 240  
aaactttgat gtttataaga cacctatgtt tacacatata tacacatata ttgtaaatat 300  
taatacttct ttataaaatc catgcatatt tgctttgtca tattcttatt attctgt 357

<210> 650  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (440)..(440)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (473)..(473)  
<223> n = unknown

<400> 650  
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atcatgtagg aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta 120  
tcttaatcca acatcgaggt cgcaatctat tttgtcgata tgttctctta aaaataatta 180  
cgctgttatc ccttaagtaa cttaatcttt taatcataat ttatggatca attattcaat 240  
tatttatggt ttaataaaaa aaaagtttta taaattttcc tatcacccca ataaaatata 300

FC-8-C3.ST25.txt

ttaatataaa taaatttaaat aatattctta aaattaatct atattttatat ataaaaacttt	360
aaaggggtctt ctgccttta ataataattta cgcttttttaa cataaaaaatt aaattctata	420
acaacttttta ttaagacagn taatatttca ttcaatcatt cattccagct ttnaattaaa	480
aaactattga ttatgcta	498

<210> 651  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (477)..(477)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (486)..(486)  
 <223> n = unknown

<400> 651	
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atcatgtaag aattaatggg cgaacagacc aaatttttaa acttctgcat tttaaaatta	120
tcttaatcca acatcgaggt cgcaatctat tttgtcgata tggtctctta aaaataatta	180
cgctgttatc ccttaagtaa cttaatcttt taatcataat ttatggatca attattcaat	240
tatttatggt ttaataaaaa aaagttttat aaattttcct atcaccccaa taaaatatat	300
taatatataat aaatttaata atattcttaa aattaatcta ttttatata taaaacttta	360
aaaggggtctt tcgccttta taatatttac gctttttaca taaaaattaa attctatagc	420
aattttatta agacagttaa tatttcattc aatcattcat tccagctttc aattaanaac	480
tattgntatg ctcttttg	498

<210> 652  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 652	
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag	60
atcatgtaag aattaatggg cgaacagacc aaatttttaa acttctgcat tttaaaatta	120
tcttaatcca acatcgaggt cgcaatctat tttgtcgata tggtctctta aaaataatta	180
cgctgttatc ccttaagtaa cttaatcttt taatcataat ttatggatca attattcaat	240

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tattttatggtt ttaataaaaa aaaagtttta taaattttcc tatcacccca ataaaaatata	300
ttaatatataa taaattttaat aatattctta aaattaatct atatttatat ataaaaacttt	360
aaaggggtctt ctcgtccttt aataatatatt acgcttttta acataaaaaat taaattctat	420
aacaatttta ttaagacagt taatatattca ttcaatcatt cattccagct ttcaattaaa	480
aaactattga ttatgcta	498

<210> 653  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 653	
acaaaatttag aaaaatttaa ttaaggatct gcgataaaaa aaaaacaatt tttgacacat	60
gaaacaattt tctaaatcat ttttctattt catgttcaag agaacagacg gacagacgaa	120
cagatagata aacagggtgga cacttaacac gttaatcgcc atgataatat cagaaaaaaaa	180
tttacatgca ctatggtaac tttattagtt gaaaatgtat cgaaaactcc atgtagcaaa	240
gaaaaaaaaaga tattttgaaa aattcctgca cattatTTTT ttatgccaca tataatatgac	300
tgatatatat gtcagacata atttataaac tagtcggttt ggtatttagc cttgagggca	360
agttacatga acttcccgat atgttttaaat aatcaactta atcaataaaa aataaattaa	420
tttatgagtc attaaaagta ttccgagtgg atttattata cataattgaa aacgaacgac	480
actttgactc ggagtatt	498

<210> 654  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n = unknown

<220>  
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 <222> (472)..(472)  
 <223> n = unknown

<400> 654	
tcggtccgac acgctagnat gcgaagagcg aacgaaattt cttactatga gcggttgcaa	60
cgctagtttt atatttatta taaaactata ataaaattat aatttattct ttaaaattat	120
tttcgatagc taaatacgta tatattacat aaatatatgg tattttatta aagacgatat	180



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gttttacgtc agcatttttg gtaaacaac tttttctttt aatactatat taccatttat 240
atattttgct atctttgtat ttattgcgtt tcgataattc atataattta attttcaa 300
acaatgttaa aaataagcta ttacattttt acaagcaatc gaacgtagct tataaaatca 360
tattattatt tatgtaatta actattaggt ttgcactaat ttatacacca taaaaattaa 420
tttcgtataa tattaaaaac aatcgaattt tcaacgtaaa actctagatt gnatatagta 480
tgattataag tgataaag 498

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<210> 655
<211> 241
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (219)..(219)
<223> n = unknown

<400> 655
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tgaaacaatt ttctaaatca tttttctatt tcatgttcaa gagaacagac ggacagacga 120
acagatagat aaacaggtgg acacttaaca cgttaatcgc catgataata tcagaaaaaa 180
atttacatgc actatggtaa ctttattagt tgaaaatgna tcgaaaactc catgtagcaa 240
a 241

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<210> 656
<211> 249
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (208)..(208)
<223> n = unknown

<400> 656
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aaaaatctga ttactttctc agctccttct ctttgtttct cgctacattt agcgcaactcg 120
ttggataagg catcaggtaa gacttttttc aattcttttc cttctgctgt gcagctgcct 180
ttgtcgagaa ggcagtttac atagttgntg agcaatctat tgctttgcaa aatttcattc 240
aaattgatg 249

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<210> 657  
 <211> 155  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 657  
 taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggc ttgaactcag 60  
 atcatgtaag aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta 120  
 tcttaatcca acatcgaggt cgcaatctat tttgt 155

<210> 658  
 <211> 385  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 658  
 tgtcgacgat ttgcaagtag ttgggaattt ggccgcctta gataagtatc cccatccagc 60  
 cagagtggat actgctccaa ttggtgtatc atagcttgcc agaccaactg gtttgacata 120  
 gtttgtgtat acaatatttg atgtagtttt tagtaaagcg atgttattgt ggtatgtgtt 180  
 ctgggttaa at tggttatgaa cgattatttg ggcaactttg tctcctactc cgccagcatt 240  
 caaagtgttg gttccaacga cgagaagaat atcatttgga tatttattta acacgcaagt 300  
 agcagcagta agaatccaac gattgctgat gatggcacca ccacagaagt gtccttggtt 360  
 ggttctcaaa gacaccataa aaggc 385

<210> 659  
 <211> 292  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (75)..(75)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (259)..(259)  
 <223> n = unknown

<400> 659  
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cttataactta tcagngcttt ctaaaataac atacataatt taaatcaaaa ttaaatacga 120  
 gtaacaaaag tagtaaaca atagaattag ttctaattctt cttacaccta aaaactatatt 180  
 tagataaatt gagtagatcg ccattttctt ttaatttaat aaattctttt ttatgatgta 240  
 ttaaatatctc atatatcgnt tattttaaag tttccggtat cttataattt gt 292

<210> 660  
 <211> 315  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 660  
 atagcttaat aaagtaaaca ttttaaaatg taatgaattt atctgcaa at agtcaaaatc 60  
 aaaattacta tataatgatt attgaaataa tgcttttata gattgcattt caatctgtat 120  
 taaattgtat gtaaatacaca gcacaagatc taacacacaa ttcattctaac agaaagaaca 180  
 aaataatttt aatgttatta aaaattacat ataaaataac ttttacaata aagtaacctt 240  
 acatgagatg tgttgatttc agatactttt catacaacag tacttttctgt ataaacaata 300  
 taatataaat aacgg 315

<210> 661  
 <211> 189  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
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 atcaaccaat tgattgaagg gaaatgtttc ctttgagcta atttcttatt caaacccag 180  
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<210> 662  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
 <221> misc\_feature  
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 <223> n = unknown

<220>  
 <221> misc\_feature.  
 <222> (390)..(390)  
 <223> n = unknown

<400> 662  
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 tttcataaag cttctatatt tatatatatt aaataatcag aaattactat agttaatgac 120  
 attttgtttg ngcnccttac ataaaataca attttataca ttttaatttt tatacatatt 180  
 ttttatattt aattgcacan atcatttgng tattttattat attaatngac tactttatga 240  
 taatttgaat cctaattagt ctattcaaga ttgnnttcct ggtttaagcc ttacttagca 300  
 atctcacttt tgcattcttc gccgggtggc gtgggtatgc atcgcaactc cgttttatca 360  
 aagtgcagc catttggaca atcataatgn tttatttgcc atttg 405

<210> 663  
 <211> 526

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (485)..(486)

&lt;223&gt; n = unknown

&lt;400&gt; 663

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atatttagttt taattaatac gaagtctcat taatgaaata attaatgacg actttaggat      60
aattattttat atacattttt ataagaaaag actcattatt ttataagtat ttaaatttca      120
aaatcaagtt tttgggatgg agcagaagaa taaatatatt tattatatcg ctogactggt      180
atacgatgag attttcttat gaaagtgggt ccctggctcg gttaggcaaa aatagacaca      240
tcagaccacc tccagccaat agtagtgcta caataaatgt cggggctggc aatacatgtc      300
taataaagtt gcaattacca cattgccaat tatgcctcca agtcgagcag ctccatagat      360
attgccacac cagtagccct caaatttggg ggaaacacct cggtgataag acagccacgc      420
tgcattttca caagatataa cagagctgaa gactgcagac acgattaaat tgtgacgttt      480
attgnaaaca aagaacatgc aggctggcac actcctgggtg taaaag                      526

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&lt;210&gt; 664

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 664

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tttccgtaat gatgatggtg ggcgcgactt ccggaatgtt cttgccggaa actttacacc      60
aaaagttacc ggaaacgcta actgaagctc acgtattcgg cagggatcag gtgttctgga      120
gcttaccgaa aaaaggtgta tcaaagtcta cagatacggc cgtcaagaaa ttatcacaag      180
aagactgtta aatagttata atttgtattg ttatacatat gtttcttata taataaaatt      240
atatttattg t                                                                251

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&lt;210&gt; 665

&lt;211&gt; 409

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (7)..(7)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> (11)..(11)  
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<220>  
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<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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<400> 665  
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 gcaagaatga gtttcagga acgaaaagaa tcggccaaat gcatgcaaaa ggntgcatta 120  
 antatacaac tagcagcagc cagagtttca actgatgttg gcattaaagt aggagaagcc 180  
 ctcaggaatg tcgtggaact tcgttttaaat ttgggaaaat gttcttcaga caatttgaat 240  
 aaatgggaat ccagattgga agaaattaat gatgttggtg aaaattgcat cgtgtgaaat 300  
 tgtaacttga aataattttt cttaactatt agttttatag atgaacaaat acataatcta 360  
 ataaaccagc aagtgaacct tggnaaaaaa aaaaaaaaaa aaaaaaaaaa 409

<210> 666  
 <211> 447  
 <212> DNA  
 <213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (193)..(193)
<223> n = unknown

<400> 666
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gtatttcctc aaaaactggt aaatacaata agttaactta aatacatgga tgttctgaga      120
atgtgggatga gctcaagatt gtagaactga gtttgatcta cacaattttt gcctaaaagg      180
ttcgactact canaaagcag ccaccctga ttccataccg cctcacattt gacaataaaa      240
tatatgtata atgttaaata ggattttaat ggaaaaaagc caattttaata ctttagcatt      300
atgaatatgt atttccaaat tattctataa cgaatttaac ctaaaatata agaaatacat      360
attcataaat atacatatat tttaatataa aaaggtaact tgtgcaaaaa tgaaattcaa      420
atcacttggt ttgctaatt taaattg                                           447

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<210> 667
<211> 431
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (66)..(66)
<223> n = unknown

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<220>
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<220>
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<223> n = unknown

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<220>
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<222> (147)..(147)
<223> n = unknown

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<220>
<221> misc_feature
<222> (234)..(234)
<223> n = unknown

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<400> 667
gtgggccggc cgggcgggac acacaattag caataggaaa atctagccca aatattttta      60
acaatntatt taatacttat gggctagaan ngcaaagtgt aaagntcaag gtttgtatag      120

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cttaataaag taaacatttt aaaatgnaat gaatttatct gcaaatagtc aaaatcaaaa 180  
 ttactatata atgattattg aaataatgct tttatagatt gcatttcaat ctgnattaaa 240  
 ttgtatgtaa atcacagcac aagatctaac acacaattca tctaacagaa agaacaaaat 300  
 aattttaatg ttattaaaaa ttacatataa aataactttt acaataaagt aaccttacat 360  
 gagatgtggt gatttcagat acttttcata caacagtgtt ttctgtataa acaatataat 420  
 ataaataacg g 431

<210> 668  
 <211> 383  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (89)..(89)  
 <223> n = unknown

<400> 668  
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 gatgtgtgcc aaatttaaaa tactattgna tatttaattt tttttctata ttcacatttt 120  
 cattataattt ctaatcta atccccaat ttcaactaag aagttaaatt ctttgccagt 180  
 ctgagaagat aggagtaaag ttacattttt ccagccaact ccaccattga caagagtggc 240  
 atagcctcct tggccattta catattgggt cagggcacga acacagctaa ttgtgcgatt 300  
 atttctcgat cccactgggt gaaatgacac ctctctagta gctttcctga aaaagtttcc 360  
 actcttggat tggacttgac ggt 383

<210> 669  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<222> (94)..(94)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (122)..(122)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (211)..(211)  
 <223> n = unknown

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 atatgataag gcattnaaga atnttacaat ttanattttt ttaaattccat gaatatattt 120  
 gntctaataa aaattattca ttttacgctt aattttattg gttgaactaa tagatagata 180  
 gataaagata tagagttaat ataaaaatga ngaaaata 218

<210> 670  
 <211> 473  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (75)..(75)  
 <223> n = unknown

<400> 670  
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 gcatccatat attgnaacgg cgaactgagt gtattaaatt ctccaaatgg agtccaattc 120  
 caaggcgaga ctcttttacc ccaatctttg ttaaagggaat tgtattccgt agccttagga 180  
 ttgacatcgg agcagagttc tgctgaatgg gacggagtga gtaaattgaa tccttttcaa 240  
 ttacctaaag ctgtagtcac tgtagttgta gaaggcactg ataaacttag tttggattcg 300  
 aagaatacat atcctttggg tgtggatgag gaattggata atacttggga ctctttggat 360  
 aaacgcttta aagaacgcta cccctttgat gatttgactc tcgtgaacct ggaattacct 420  
 aatggtaacg tcaattctga gcgtgtcttt ggtgttgtat caccctaaacc ggt 473

<210> 671  
 <211> 543  
 <212> DNA  
 <213> Ctenocephalides felis

<220>

<221> misc\_feature  
 <222> (28)..(28)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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<220>  
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 <222> (410)..(410)  
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<220>  
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<220>  
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<220>  
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 <222> (529)..(529)  
 <223> n = unknown

<400> 671  
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 gtaatttcat aaagnnncta tttttatata ttttaaataa tcagaaatta ctatagttaa 120

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tgacattttg tttgngctcc ttacataaaa tacaatttta tacattttaaa tttttataca	180
tatttttttat attttaattgc acagatcatt tgngtattta ttatattaat tgactacttt	240
atgacaattt gaatcctaatt tagtctattc aagattgntt tcctgggtta agccttactt	300
agcaatctca cttttgcatt cttcgccggg tggngtgggt atgcatcgca actccgtttt	360
atcaaagtgc aagccatttg gacaatcata atgntttatt tgccatttgn tgntaaccac	420
gaaacattga taatatTTTT tacaatctct tcgatcggaa aaaacgtttt cacttttgca	480
tgcagtctgc ccgagaaaga ntttgggtca aaccattcgt tggcgtcgnc ttcacatttc	540
agt	543

<210> 672  
 <211> 240  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> n = unknown

<220>  
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<220>  
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<400> 672	
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nntactaggg ntaatgacat tttgtttgtg ctctttacat aaaatacaat tttatacatt	120
ttaatTTTTa tacatatTTT ttatatTTTaa ttgcacagat catttgngta tttattatat	180
taattgacta ctttatgata atttgaatcc taattagtct attcaagatt gntttcctgg	240

<210> 673

<211> 210  
 <212> DNA  
 <213> Ctenocephalides felis

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 ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cgggggcaata atattggggtt 120  
 cctatactat tttcgtcaca ataataatag ctttgacaat cacttatatt tggataaaat 180  
 ctcgatggtg acggacattt gaaaccttgt 210

<210> 674  
 <211> 402  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
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<220>  
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<220>  
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 agnatttcct caaaaactgt taaatacaat aagttaactt aaatacatgg atgttctgag 120  
 aatgtggatg agctcaanat tgtagaactg agtttgatct acacaatttt tgcctaaaag 180  
 gttcgactac tcanaaagca gccaccctg attccatacc gcctcacatt tgacaataaa 240  
 atatatgtat aatgtttaa ataggatttttaa tggaaaaaag ccaatttaaat acttttagcat 300  
 tatgaatatg tattttccaaa ttattctata acgaatttaa cctaaaatac aagaaatcat 360  
 attcataaat atacatatat tttaatacaa aaagggnagct tg 402

<210> 675  
 <211> 272  
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 <213> Ctenocephalides felis

<220>  
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 <222> (16)..(16)  
 <223> n = unknown

<220>  
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 tatcataaat aaatttatta tttaaactcat attagaggaa aaaaaaatat tttctcaatt 180  
 ctctccttca aaacttcttt gcacttctcc ggctccatac agttttaata ccactttttt 240  
 cacaaaattc aacatttttg taaaatccat tg 272

<210> 676  
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<220>  
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 <223> n = unknown

<220>  
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 ggcatccata tattgcaacg gcgaactgag tgtattaaat tctccaaatg gagtccaatt 120  
 ccaaggcgag actcctttac cccaatcttt gttaaaggaa ttgtattccg tagccttagg 180  
 attgacatcg gagcagagtt ctgctgaatg ggacggagtg agtaaattga atccttttca 240  
 attacctaaa gctgtagtca ctgtagttgt agaaggcact gataaactta gtttggattc 300  
 gaagaatata tatcctttgg ttgtggatga ggaattggat aatacttggg actcctttga 360

taaacgcttt aaagaacgct acccctttga tgatttgact ctctgaacc tggaattacc 420  
 taatggtaac gtcaattctg agcgtgtctt tgggtg 455

<210> 677  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (411)..(411)  
 <223> n = unknown

<400> 677  
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 gtgaaaacgt tttttccgat cgaagagatt gtaaaaaata ttatcaatgt ttcttggtta 120  
 acaacaaatg gcaaataaaa cattatgatt gtccaaatgg cttgcacttt gataaaacgg 180  
 agttgcatg cataccacg ccaccggcg aagaatgcaa agtgagatt gctaagtaag 240  
 gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat cataaagtag 300  
 tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa atatgtataa 360  
 aaattaaaat gtataaaatt gtattttatg taaggagcac aaacaaaatg ncattaacta 420  
 tagtaatttc tgattattta aaatatataa atatagaagc tttatgaaaa aaaaaa 476

<210> 678  
 <211> 399  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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 <222> (384)..(384)  
 <223> n = unknown

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 aaatgntaat tcatataaat cttaatcatg gntatatttatt aatttgattg attttattaa 120  
 aacaagcata ctgntacaat gnatgtctat gaaaaaccca attgattgac aactgncaat 180  
 taaacatctc tggaagaaca aaaaatattc cagagagaac ttaaaaacct tgnattcttg 240  
 atcaatatat tcataaacia tgcttgaagt ggcaggattt taatagacia tacatcaact 300  
 aggattatna acgacacaac tttgtcaaac ttgtttaaac agnttgaatt ggntctcata 360  
 gtattttta tttgaanggg gtgnaaaaac attattttat 399

<210> 679  
 <211> 373  
 <212> DNA  
 <213> Ctenocephalides felis

<220>

<221> misc\_feature  
 <222> (346)..(346)  
 <223> n = unknown

<220>  
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 <222> (357)..(357)  
 <223> n = unknown

<220>  
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 <222> (362)..(363)  
 <223> n = unknown

<400> 679  
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 ccaccagtgg gttcaagaaa taatcgtaca atcagctgtg tccgtgccct agaccaatat 120  
 gttaaaggcc aaggaggcta tgccactcct gtcaatgggtg gagttggctg gaaaaatgta 180  
 actttactct tatcttctca gactggcaaa ggatttaact tcttagttga aatttgggga 240  
 tattagatta gagatttaat aaaaatgtta ttatagaaaa tatattaaat atacaatagt 300  
 attttaaata tggcacacat ctatctatgc atccataaat aaaggntatc tactgcnttc 360  
 cnnaaaaaaaaa aaa 373

<210> 680  
 <211> 130  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (65)..(65)  
 <223> n = unknown

<400> 680  
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 gctgncaaata acgaacgctg ctggaatttg tttcaactgg aattagttct tgagactcca 120  
 aagacaatgt 130

<210> 681  
 <211> 448  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 681  
 cccaaaatct ttctcgtgca gaactgcatg caaaagtga aacgtttttt ccgatcgaag 60  
 agattgtaaa aaatattatc aatgttttctt ggtaacaac aaatggcaaa taaaacatta 120



FC-8-C3.ST25.txt

tgattgtcca aatggcttgc actttgataa aacggagttg cgatgcatac ccacgccacc	180
cggcgaagaa tgcaaaagtg agattgctaa gtaaggctta aaccaggaaa acaatcttga	240
atagactaat taggattcaa attatcataa agtagtcaat taatataata aatacacaaa	300
tgatctgtgc aattaaatat aaaaaatatg tataaaaaatt aaaatgtata aaattgtatt	360
ttatgtaagg agcacaacaa aaatgtcatt aactatagta atttctgatt atttaaaata	420
tataaatata gaagctttat gaaattta	448

<210> 682  
 <211> 276  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 682	
catataaatt gttgaagaaa agttgtttat ttgtatttat ttgtaaatat tgttaaagtt	60
aaatatataa agattgggtt tatgggttat atgtctaaca tttattttgt aacatacagt	120
taagaacaca atagaaaaat catttaatta gttggatatt tttagtataa gtattcctgt	180
gtagatagca agttgtgact acagaataaa tatctgattt tatcacaagg taaaaaaaaa	240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa	276

<210> 683  
 <211> 348  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (62)..(63)  
 <223> n = unknown

<220>  
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 <222> (76)..(76)  
 <223> n = unknown

<220>  
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 <223> n = unknown

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<223> n = unknown

<220>

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<222> (176)..(176)

<223> n = unknown

<220>

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<222> (181)..(181)

<223> n = unknown

<400> 683

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gnnaaaaaaa attaangggg gcaaagntaa tatatgtatt ggattaactn agttaattct      120
ccctcgcaat tttatactat agtaaccaga aacaaaaatc agagngtgta aaatgnaaat      180
ncatatattt ttggtaaaaa tacaatcaag atataacagt gccacaatat tattaaaata      240
cgtattttgtg acgaaaccta aagtgtagtc agaataataa aaacaataat atttatacct      300
tcaaattgtat gctttgaaaa aaagcattcg aagattatgt ttaaatat      348
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<210> 684

<211> 255

<212> DNA

<213> Ctenocephalides felis

<400> 684

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cggcgacaaa acacttgaag ataaattctt tgaacatgag gttcatctca atgtgtttgc      60
tttcttgcaa caattccatt tcggagtatt ttactcttat ttgaaactca aggaacaaga      120
gtgccgtaac attgtttgga taagtgagtg cgttgctcaa aagcacagga ccaagattga      180
caactacatt ccaatatttt aattaatttg ttgttaattt tgataacggt gattttatcc      240
agatgtttgt tgtgt      255
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<210> 685

<211> 378

<212> DNA

<213> Ctenocephalides felis

<400> 685

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cgtcaagtcc aatccaagag tggaaacttt ttcaggaaag ctactagaga ggtgtcattt      60
ccaccagtgg gatcgagaaa taatcgcaaa attagctgtg ttcgtgccct ggaccaatat      120
gtaaatggcc aaggaggcta tgccactctt gtcaatgggtg gagttggctg gaaaaatgta      180
actttactcc tatcttctca gactggcaaa ggatttaact tcttagttga aatttgggga      240
tattagatta gaaatataat gaagatgtga atatagaaaa aaaattaaat atacaatagt      300
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atttttaaatt tggcacacat ctatctatgc atccataaat aaagggttata tacagcattc 360

aaaaaaaaaa aaaaaaaaaa 378

<210> 686  
 <211> 500  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n = unknown

<220>  
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 <222> (63)..(63)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (141)..(141)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (219)..(219)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (374)..(374)  
 <223> n = unknown

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 atnecatgtaa tttcataaag cttctatatt tatatatattt aaataatcag aaattactat 120  
 agttaatgac attttgtttg ngctccttac ataaaataca attttataca ttttaatttt 180  
 tatacatatt ttttataattt aattgcacag atcatttgng tattttattat attaattgac 240  
 tactttatga taatttgaat cctaattagt ctattcaaga ttgttttcct gggttaagcc 300  
 ttacttagca atctcacttt tgcattcttc gccgggtggc gtgggtatgc atcgcaactc 360  
 cgttttatca aagngcaagc catttggaca atcataatgt tttatttgcc atttggtggt 420  
 aaccaagaaa cattgataat attttttaca atctcttcga tcggaaaaaa cgtttttact 480  
 tttgcatgca agtctgcacg 500

<210> 687  
 <211> 114  
 <212> DNA

<213> Ctenocephalides felis

<400> 687

agcattgtat aactctgcag ggggtggcagc tacatgaata gcctccattt gttcgaaact 60

tccaagtggg tggcatttgg gaatcaattc agaaattggg ctctgatgta gtgt 114

<210> 688

<211> 221

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (34)..(34)

<223> n = unknown

<400> 688

tatataatct gattctcgat ttgtatcttc atanctgatt ctccagatatt cattaccgga 60

atgttcatca ttacgtctga gttgtccact aaattcaact ttttttccat tttcttccat 120

gacatgtctg aattttatatt taccatcaac taaagattcc atgtgagctc ttgcgcaagt 180

tccatctcgt tcaaaatgat tttggtatct atattgttcg t 221

<210> 689

<211> 103

<212> DNA

<213> Ctenocephalides felis

<400> 689

gacttcttca attgggccta ccatatagaa agctacttca ggaagatgat cgtattcacc 60

tgcaagaatc ttggtgaagc ccttgatggg ttcttctaatt ggt 103

<210> 690

<211> 411

<212> DNA

<213> Ctenocephalides felis

<400> 690

ttttttttta aacttcataa aatcattata attctttaaac aattataaat gaatgctgta 60

tataaccttt atttatggat gcatagatag atgtgtgccaa aatttataat actattgtat 120

atttaatttt ttttctatat tcacattttc attatatttc taatctaata tccccaaatt 180

tcaactaaga agttaaatcc tttgccagtc tgagaagata ggagtaaagt tacatttttc 240

cagccaactc caccattgac aagagtggca tagcctcctt ggccatttac atattgggtcc 300

agggcacgaa cacagctaatt tgtgcgatta tttctcgatc ccaactgggtgg aaatgacacc 360

tctctagtag ctttctgaa aaagtttcca ctcttggtgg ggacttgacg g 411

<210> 691  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 691  
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 catgcagaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccggcga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
 acatgtatct ttttaata 498

<210> 692  
 <211> 395  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 692  
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 ctctgaacc aactttgcat gtgtaagagc cagcatcatc ttgttcagtt ttttcaataa 120  
 tgaattgatg ttcttccttt attaatggt aacggtcctt gagatcattg atttcttcta 180  
 cttttttctc atcttttaac cactgatcaa caggaccatc tttcaatgga caggtagaa 240  
 ccaatggact acgaatatca aaaagttttt gcgacgtggc ttcaccttct ctggcataaa 300  
 cactgctttg gaccaaaaat aataaaattg cactacacaa aaactgcttc atatttattg 360  
 aattttcttc ccctcgattg aaatagttca taagt 395

<210> 693  
 <211> 499  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
 <223> n = unknown

FC-8-C3.ST25.txt

<400> 693  
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tttcttggtt aacaacaaat ggcaaataaa acattatgat tgtccaaatg gcttgcaactt 180  
tgataaaacg gagttgcat gcataccac gccaccggc gaagaatgca aaagtgcgat 240  
tgctaagtaa ggcttaaacc aggaaaacaa tcttgaatag actaattagg attcaaatta 300  
tcataaagta gtcaattaat ataataaata cacaaatgat ctgtgcaatt aaatataaaa 360  
aatatgtata aaaattaaaa tgtataaaat tgtattttat gtaaggagca caaacaaaat 420  
gtcattaact atagtaattt ctgattattt aaaatatata aatatagaag ctttattgaa 480  
attacatggt ctttttaat 499

<210> 694  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (65)..(65)  
<223> n = unknown

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atgnggattt atttgcattt aaaggcaatg tatcggttta atgggtttta atttattttt 120  
tatttaatat taaatagatt aattaaaaat ctataaagtgc ataagaggcc tgatatccat 180  
aatattattg aatattaaga agtgacggat agatctgata atgtagtagt tgttatagac 240  
aatttactta ataattatga gttgcatcat tatgcaatga tttatcacta ttattttattc 300  
aacattttat ttaactgctt gcaactttta ataaaacgca ttttttattg ttttaagtat 360  
aaatcttatt agggcacaat atgaaaataa aaataagaac tttatcaaaa gcttttttta 420  
tcaatatgct tcttgcgcta ttaagttaag aaattttatt tatgcttgta aaaaacaaat 480  
aaatgcttta ttattoga 498

<210> 695  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<400> 695  
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FC-8-C3.ST25.txt

aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgatc gaatcaaatt	120
gtagatcat gacaatatac caaattctgc ttggaaatt gatttggctg aaaaaagcga	180
tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac	240
aaccttggtt cgagttcaag ataaattagc tgctttgtgg ccatttttgg gtatctgtgc	300
tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca acaaagctga	360
aatggaggag agtgatacag atcaaagtcc agatcgaaaa aatactcctg atcacatgaa	420
ggacactgat gtgaggcata ggaagtaaac caaaaattta atctagttga ataaaagtta	480
atgcaccaga gtaggaag	498

<210> 696  
 <211> 153  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 696 ttacctttg tacgtagggg cacaaattcc acgaagtttt tgtcatagaa gtcatccaaa	60
gcacgcatat atttactgta tgaaatcaac caattgattg aagggaatg tttcctttga	120
gctaatttct tatccaaacc ccagaacact tgt	153

<210> 697  
 <211> 204  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 697 cagttaatga tctacaactt gttcaaaaag ccttaactga tggatcgaac gcgtgtggaa	60
gttcaatcga atccttccta aatgttattg aaactgaaga agcacctcca acctttaata	120
gaactaacia attcactcaa ggtttccaaa acttgataga tgcctacgga gttgctagtt	180
acagagaagt aaatccagct ctgt	204

<210> 698  
 <211> 399  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (373)..(374)  
 <223> n = unknown

<400> 698 caaatatcta gcatgccaac attcgtgttc ctgaaaaacg gaaccaccgt aaccacgttc	60
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FC-8-C3.ST25.txt

actggtgcga actacgacaa agttcgggaa accattactt ctaatttata aatctttatg	120
ctgagtgccct gctatagatg tttaggctta gatttcaaaa ttttaatggt tcagaaaatt	180
gttcatgttt gcacaaatta tatgtatata ttttttctta acttcaaatt ctaaaattac	240
ttcattgtgc tattttattc attaagcgta ttctacatag atcacatagt gtctttatca	300
gtgagcagtt catagtatat ttaagcta atattttttg ttactgtatg agttcataaa	360
ggttataaca tannaaaaaa aaaaaaaaaa aaaaaaaaaa	399

<210> 699  
 <211> 487  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 699	
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gtaattgatc aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact	120
tcattgagga caactgatat agaattttgc ccatagcatc tctaattggta ttccaggtaa	180
tcttgttttc actttgtgca gtagattcaa ctgcgtatct tgccatatca tagaaagcaa	240
taatgttacg taacatacca actgttttat agaaggggca gaaacgatca tatgatgagt	300
agctgttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt	360
cagttttccgc caaggaggct ttaccaacca attgtacaat ttctgataaa tcttcttctt	420
cttgcaaaat ttcctttacc tttgtacgta ggggcacaaa ttccacgaag ttttgcatag	480
aagtcac	487

<210> 700  
 <211> 393  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (346)..(346)  
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ctcctgaacc aactttgcat gtgtaagagc cagcatcatc ttgttcagtt ttttcaataa	120
tgaattgatg ttcttctctt attaattggg aacggctcct gagatcattg atttcttcta	180
cttttttctc atcttttaa cactgatcaa caggaccatc tttcaatgga cagggttagaa	240
ccaatggact acgaatatca aaaagttttt gcgacgtggc ttcaccttct ctggcataaa	300



cactgctttg gaccaaaaat aataaaattg cctacacaaa aactgnttca tattttattgg 360

aattttctttc cctcgattga aatagttcat aag 393

<210> 701

<211> 452

<212> DNA

<213> Ctenocephalides felis

<400> 701

aacaaaaaga taatatattc taaatatagt ttcaatcaat gatattttct aaattgagga 60

taattaggct atattatgtc ggtaattcat tttatatata tagaaactca tgtgcaccca 120

aatccggtct ggcttcatca taaaatgaaa ttcaaaatac tgttacaatt ggtttggccc 180

gagataaata ctttgtacac aacaaacatc tggataaaat caacgttatc aaaattaaca 240

acaaattaat taaaatattg gaatgtagtt gtcaatcttg gtcctgtgct tttgagcaac 300

gcactcactt atccaaacaa tgttacggca ctcttggtcc ttgagtttca aataagagta 360

aaatactccg aaatggaatt gttgcaagaa agcaaacaca ttgagatgaa cctcatgttc 420

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nccatatgaa gcaatgctcg ttcttctatc cacttgcttc tgataaatgt tcggtataaa 180

gaatgcaatc actccacatg ctatcagaga tgttctgat attaaaaatg ttaaategca 240

attntaatct agaattattc ctacaacatt gctttcaaca acatttccta atcgacccat 300  
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 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttnatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn 360  
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 tgtttcttgg ttaacaacaa atggcaaata aaacattatg attgtccaaa tggcttgcac 180  
 tttgataaaa cggagttgcg atgcataccc acgccacccg gcgaagaatg caaaagtgag 240  
 attgctaagt aaggcttaaa ccaggaaaac aatcttgaat agactaatta ggattcaa at 300  
 tatcataaag tngtcaatta atataataaa tncacaaaatg atctgtgcaa ttaaataataa 360  
 aaaatatgta taaaaattaa aatggnataa aattgtat ttatgtaagga gcacaaacaa 420  
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 actttgataa aacggngttg cgatgcatac ccacgccacc cggcgaagaa tgcaaaagtg 180  
 agattgctaa gtnaggctta aaccaggaaa acaatcttga atagactaat taggattcaa 240  
 attatcataa agtaggcaat taatataatn aatacacaaa tgatctgtgc aattaaatat 300  
 aaaaaatatg tatnaaaatt aaa 323

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 acatatTTTT atcaatcata tatatatata tatagTTTT ggtttaagat atataacaac 180  
 aatgTTTTcta tcgcacatat cattaaatat actttcatat gcgacaagac aagTTTTtgc 240  
 attaaaaaaaa tatatgttac taatgacaat atttagaatc acacttgaag actcctcctc 300  
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 ttttactacc cgtaaccgat tctgcttcag atatttccag aaaaatgtta gttttcatac 180  
 attttattta atttaatatc tcccgacttg ntattactaa gcgaaatttt ctctntttta 240  
 aatatagaat tctttatagt attcataata gncgaagctt taaagtattt cttctcacta 300  
 tcaccctttt ttatacaaac gcattttgag aagtaacgtg aaagcttact ttcgaattgg 360  
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FC-8-C3.ST25.txt

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gaggacaact gatatagaat attgcccata gcatctntaa tgggtattcca ggtaatcttg      180
ttttcacttt gtgcagtaga ttcaactgcg tattttgccca tatcatagaa agcaataatg      240
ttaccgtaac ataccaactg ttttatagaa ggggcagaaa cgatcatatg atgagtagct      300
gttctgctgt aggaaatcgt ctttcaagag cttggcaact tcaagtgtga tcttgtcagt      360
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<210> 710
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ataaagcttc taagaacttc attgtgaaaa cttattccta agtaaaat                               168

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<210> 711
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tacagtathtt cctcaaaaac tgttaaatac aataagttaa cttaaataca tggatgttct      180
gagaatgtgg atgagctcaa gattgtagaa ctgagtttga tctacacaat ttttgcctaa      240
aaggntcgac tactcagaaa gcagccaccc gtgattccat accgcctcac attngacaat      300
aaaatatatg tataatgtta aataggattt taatggaaaa aagccaattt aatactntag      360
cattatgaat atgtatttcc aaattattct ataacgaatt taacctaaaa taccaaggga      420
atacatattc ataatataac atatattttt aataccaaaa g                          461

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<223> n = unknown

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gtaaatggcc aaggaggcta tgccactctt gtcaatgggtg gagttggctg gaaaaatgta      180
actttactcc tatcttctca gactggcaaa ggatttaact tcttagttga aatttgggga      240
tattagatta gaaatataat gaaaatgtga atatagaaaa aaaattaaat atacaatagt      300
attttaaatt tggcacacat ctatctatgc atccataaat aaaggttata tncagaanaa      360
aaaaaaa                                           367

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<210> 713
<211> 448
<212> DNA
<213> Ctenocephalides canis

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<400> 713
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FC-8-C3.ST25.txt

tcaaatttta gatgattaaa attgttctat tactacaata gcaacctctg cctgaaaatt	120
aaccgaacaa acttctaaca tccttattaa tgtatagatt ttgaataata acatagaaat	180
tatactatatt ttttgatgac tctaataaaa aaaatgtata aatggccatg cctgatatat	240
ttttgataac cttaatgaaa aaatgtttta atggccatgt ctgaaaagat ttctatgtgt	300
atTTTTTgt taacatttta ttgttgaatg gataaaagat aaatcaattt tataaagctg	360
tttgataaaa ttaatttgaa taaatcataa tcatagaata tgtaaaggta gccaaataaa	420
atatggccca caaaccccaa aaatggtt	448

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tttgcccgaa aatctcttga tatgcaaaca aaaactggag ctaaattgt	168

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 <212> DNA  
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ggagacaacg tctgaagtca tttccattcc ttggttcaaa tcaccatttg atttagcaga	180
atgaggagct tcatctttat ttttcttggg tgccatcaaa tataatgggt tgcccaagag	240
catgagcgga atacagcaga gcccaattaa cacaaatatt ttttgaattt gctgttgtcc	300
ttcaaacata aattcatcgc aatgttctgc tggagatcct tgcttgaata acatcatggt	360
aatgaacaga atcaaaactg atggtgcgca gcaagggttc aaatctgatg tctgtattat	420

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428

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 tcgtacccaa aattctcttt ggatcttgat catgttaaag ttgctttaac ggcataggct 180  
 cgtatgcatg caagttgcat tatctacgag aagaaaaaaaa attggtgcat ggggagagtt 240  
 taaaaagatc ttatgttcga gactatggcc aataataatc aatgggtggag gactggagag 300  
 gatactgctt tagcaattgc tgaggaatct gagaaattcg gtaaataatac cgaatccatt 360  
 ccatgggtaca ggagaagtta attgatttcc tgagattggc atgggtctatg gtaaaaccat 420  
 cgcgcatTTta taaaaatgtg gtatgcccc gcgatcgcg aatccaaatt ngtgggtcnaa 480  
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 taaaaggact ttatatacag naattatctt cagaaatcct ttccacaatt ttgctcgggtg 180  
 tgttttaagt ttgtcaacat ctatgggtgt attatTTTTc acatatgtcc aaatttcttt 240

cattaattcc gacgatgggt ttggtcacg tgtgagaatc ccaagctaatt tctatttttc 300  
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<210> 718  
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 ttnttccatt gtgtctttac actcggccg 209

<210> 719  
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 <212> DNA  
 <213> Ctenocephalides canis

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 gtgcagcctc tcttcacttt atctccgtca atatctaagt agcatttgcc catgcatttg 180  
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 ttctggtht ttctcgcaca tttttttcag attctggtht ttgaacaggt tgctggthtga 360

ccctaatttt atggcatcac ottgtgcatt taaaatactc aaacaagtat cttgtggcctt 420  
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tctcgacttt ttcaggatcg tccaggcaat tttcatcatt ttcattngcag gaaacacatt 180  
cgntgttttt tagcatcacc attgcattca ttttggtcac aagttgggca acgttctggt 240  
tttttctcgc acattttttt nagatttttg ttcttgaaca ggttgctggt gcagcctaata 300  
ttgatggcat naccttgtgc attcagaata ctcaaacaag tatctttagg attgagacaa 360  
actttcnttg gcatcatctt ttagcattgc aaaaccctg cgatttcttg ggaaaaacat 420  
cgatattaca aaaggtacct ttgcatttct tggcatttt 459

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FC-8-C3.ST25.txt

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tattatgtaa aattaaaata tgtaagttaa tacaatttag aatgatatca gtatgacaaa	180
ttgtggaaat atttaccttt acaaaagtna aaacaaaaat ttnggaaata ggaaaaataa	240
taagaaatta ttttanaata attttgcctt atacttatga attttaaaag aatatttttc	300
ctactaaaat accttancaa ttaccnaaaa tcattacccc ttggaatata aaaaantcta	360
atcttggaat aaaaggggta ggggtatttta aaacaaattc nnattttttt ttattttcan	420
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ctaccttttt gtattaaaat atatgtatat ttatgaatat gtatttcttg tatttttaggt	180
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ttttttccat taaaatccta tttaacatta tacatatatt ttattgtcaa atgtgaggcg	300
gtatggaatc acgggtggct gctttctgag tagtcgaacc ttttaggcaa aaattgtgta	360
gatcaaactc agttctacaa tcttgagctn atccacattc tcagaacatc catgtattta	420
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 gttcaatcga atccttccta aatgttattg aaactgaaga agcacctcca acctttaata 120  
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 gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga 180  
 tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac 240  
 aaccttggtt cgagttcaag ataaattagc tgctttgtgg ccatttttgg gtatctgtgc 300  
 tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca caaagctgaa 360  
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 ttaaccgaac aaacttctaa catccttatt aatgnataga nnttgaataa taacanagaa 180  
 annatactan ttttttgatg actctaanaa aaaaaatgta taaatggcca tgcctgatat 240  
 atnttngata accttaanga aaaaatgttt aaatggccat gtctgaaaag atntctatgg 300  
 gnatttttnt ggnaacattc tattgntgaa tggataaaaag ataaatacaa ttttataagc 360  
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 <212> DNA  
 <213> Ctenocephalides felis

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 aaagacaatg t 131

<210> 727  
 <211> 167

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 727

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taccatcctt accatctttc ccaaccttgc caacatcttc cccaacagca ggacttcctt 120

ttggccgaaa atctcttgat atgcaaacaa aaactggaac taaatgt 167

&lt;210&gt; 728

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 728

cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt 60

gttggttgaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360

tattagattc gatgtaagat atatgt 386

&lt;210&gt; 729

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 729

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catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180

ataaaacgga gttgcgatgc ataccacgc caccggcga agaattgcaa agtgagattg 240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360

tatgtataaa aattaaaatg tataaaattg tatttttatgt aaaggagcac aaacaaaatg 420

tcattaacta tagtaa 436

&lt;210&gt; 730

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

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 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaatg tataaaaatt tgtttttatg taaggagcac aaacaaaaat 420  
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 tatggttcgg agtagccttt ttcttctcgt tacttgctat ctgtatctcg atctccacaa 180  
 tggaccctgg cagggactcc attatttaca gaatgacatc cacacgcac aagaaggaga 240  
 attaaagttt gcgaaaggag tgtttttaat tgtaaataga ttgtttagta ttattacaat 300  
 gtaaccgagt tattaatttg tgatcaatat aaattaaaaa ttaaaatata atatctttgt 360  
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 gt 422

<210> 732  
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 caaatggctt gcactttgat aaaacggagt tgcgatgcac acccacgcca cccggccgaa 180  
 gaatgcaaaa gtgagattgc taagtaaggc ttaaaccagg aaaacaatct tgaatagact 240  
 aattaggatt caaattatca taaagtagtc aattaatata ataaatacac aaatgatctg 300  
 tgcaattaaa tatnaaaaat atgtataaaa attaaaatgt ataaaattgn nattttatgg 360  
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<210> 733  
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 ggaaaactaa aaatatgttt ggagaaaata tagaaaattg aatagnctaa aacattttcc 180  
 taacatagga agacctaca gcaactcggg atactcaaaa aagtttggtg aaaagttgat 240  
 aaatattcac agcgcttcac tgttttggtc ttgagtnnag gaaaagtgca tttatttata 300  
 acttttgaac ggggtttattt gattgaaatg aaatattcgg caaattatag aaaatttaaat 360  
 aatctacaaa tttttctttt accggnacag gaaaccaaca aaatnttccc ttcggttaat 420  
 accnggtaaa catcacaaaa tgggtatccga atcaatattt tttntaaaaa ttggaaaatt 480  
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 <212> DNA  
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 aattggttgt cacctttgct gctggttaca ttgccggtgt attctgtgca gtagtttctc 180  
 atcctgcaga cacagttggt tocaagctaa atcaagacaa aggagcaaca gccattgacg 240  
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<210> 735

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 gtcccaagta ttatccaatt cctcatccac aaccaaagga tatgtattct tcgaatccaa 180  
 actaagttta tcagtgcctt ctacaactac agtgactaca gctttaggta attgaaaagg 240  
 attcaattta ctcactccgt cccattcagc agaactctgt ccgatgtcaa tcctaaggct 300  
 acggaataca attcctttta caaagattgg ggtaaaggag tctcgccttg gaattggact 360  
 ccatttggag aaattaatac actcagtcgc cgtgcatata tggatgccac aaggggcagt 420  
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<210> 736  
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 gtcgtccttt ggattcatatc aaactttggg cttcgtcttt cctgcatctt tgaaacattc 180  
 gtttcttagt tctggaagtt tttgaacggt acaaccgat ttctcgcaac acattttttc 240  
 tcggttagtc gagtcgcaac tttctttaac cgt 273

<210> 737  
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attaatttttc atgncgatgt tttagaaaat gattcagtag caactttctga attttctttg 180

naattgataa tacttttctca aagtataatt gcatttcaca acacacgacg gaaatatggn 240

tatggccata tgaagcaatg ctcggtcttc tatccacttg cttctgataa atgnttggn 300

taaagaatgc aatcactcca catgctatca gagatgtcct gatttaaaaa tggtnaatcg 360

caatataatc tagaaatatt tctacacatt gggtccaaca cacttcctaa t

411

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 ttttaattttt atacatattt tttatattta attgcncaga tcatttgngt atttattata 180  
 ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat tgnnttcctg 240  
 gnttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg tgggtatgca 300  
 tcgcaactcc gttttatcaa agtgcaagcc atttggacaa tcataatggt tatttgcctt 360  
 ttggtnghaa cccaaaaacn atgggnaant ttttttacia ntnttcgacg gaaaaaacgt 420  
 tttccttttg catgccgttt gc 442

&lt;210&gt; 739

&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 739

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caaagtgatt taccagagaa gtttgtgaaa gacttgggtg tcctcaacgc tttatcagac      60
aaagtcttgg aattaacccc cgatgaacgc cctacctgtt cttcttccgc ttatcaacaa      120
atttcaaatc ccccgaagac accgacaaag ccaaaacaga gctcaccaa gccatcaaaa      180
ccttgagcga ggcttttgat aaaacctaca aaggcaaagt gctgttcaca gt              232

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&lt;210&gt; 740

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 740

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gcacgaattc acgcaactaa attttacttt ttacatttt tgctcgggtt tcggtacagg      180
tgtaggttca ggagtaggta ctactcctgg tgcgggctca tccaatgatg caaatacttc      240
tttatttact gttaaaggcg ttccgtcgac attaaactca ccatcataag cggaacgcac      300
agataacgcc aaaaaactaa taaaaaccaa tgtgatataa aacattctaa taaatatgtt      360
accacactt  gggcgggacc caccctaagc cgaatt                                396

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&lt;210&gt; 741

&lt;211&gt; 331

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 741

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ggcataagaa tcattccact ggtccacccg atggactgca tcatggcaat gtgtgctcta      120
tcttcacttc tggatatttc catcgcaatt atcaaagggc ttgaaaaaac agatgtagat      180
gttagtgaac caagaaaagc cgctgttata aaaacaataa accaactgga agtaaagtct      240
gtaattagtc ttccggtgac gattgtgatg agacttaagt aaaatactgg tcttcttcca      300
atcctgtctc ctaattgacc aaagataaat g                                  331

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&lt;210&gt; 742

&lt;211&gt; 131

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

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 atacatttta atttttatac atatttttta tatttaattg cacagatcat ttgtgtattt 180  
 attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattggt 240  
 ttcttggttt aagccttact tagcaatctc acttttgcac tcttcgccgg gtggcggtggg 300  
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<213> Ctenocephalides felis

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 aagaangcaa tcaactcccat gctatcaaga gatgntcctg atattaaaaa tgntaaatcc 180  
 gcaattataa tctagaaata ttcctacaac attgctttca acaacacttc ctaatcgacc 240  
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<210> 745  
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 <213> Ctenocephalides felis

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gtgcacccaa atncgntctg gtttcatcat aaaatgaaat tcaaaatact gttacaattg 180

gtttggcccg agataaatac tttgtacaca acaaacatct ggataaaatc aacgttatca 240

aaattaacaa caaattaatt aaaatattgg aatgtagttg tcaatcttgg tcctgtgctt 300

ttgagcaacg cactcactta tccaaacaat gttacggcac tcttgttcct tgagtttcaa 360

ataagagtaa aatactccga atggaattgt tgcaagaaag ccaacacatt gagattgaac 420

tnatgtttaa ggattatctt naagtgtttt ncgccc 456

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 caaataagag taaaatactc cgaaatggaa ttgttgcaag aaagcaaaca cattgagatg 180  
 aacctcatgt tcaaagaatt tatcttcaag tgttttgtcg ccggtccatc gccagagcct 240  
 tcgaataaag cagaatactc agcataatat tcagctacag ctttaacttg tcataatcat 300  
 cagcacgagc cagagcagct taaccgctgg ggtagttac caccaccggg ggtcaattaa 360  
 cagacatcc ttgctnattc agttccaacg agttgatggt atgatatngc acgttgagct 420  
 tcaaagctat tttccattg atcactgngg atccccaagt ccttgcaaa 469

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 gaagctataa tatatatataa ctaaatatgt 210

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 tgggtttaag atatataaca acaatgtttc tatcgacat atcattaaat atactttcat 180  
 atgcgacaag acaagttttg catttaaaaaa atatatgtta ctaatgacaa tatttagaat 240  
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atgttagttt tcatacat tttttaattt aatatctncg acttggttatt actaagcgaa 180

atcttctctc ttttaaataa agaattcttt atagtattca taatagggtga agcttttaaag 240

tatttctctc actatcccct ttttatacaa cgcattttga gaagtaacgt gaaagcttct 300

ttcgaattgg tgatgttcta tgaatactta tatgtattat aatatgnatt aaatngattt 360

tgcgttcaat agacctcaat cataaatt 388

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 tactcctatc ttctcagact ggcaaaggat ttaacttctt agttgaaatt tggggatatt 180  
 agattagaaa tataatgaaa atgtgaatat agaaaaaaaa ttaaataatac aatagtattt 240  
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tctggaagtc atttccattc cttgggtcaa atcaccattt gatttagcag aatgaggagc      180
ttcatcttta tttttcttgg ttgcatcaa atataatggg tttgccaag agcatgagcc      240
ggaatacagc agaccaatt aacacaaata ttttttgaat ttgctgttgc cttcaaacat      300
aaattcatcg caatgttctg ctgggagatc ttgcttgaat acatcatgtt aatgaacaga      360
atcaaaactg atggg'gcag caggggtcaa atcttgatgt ctgtattatt tgcagagt      418

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 tctacacccg cccatgtagt ttctgccgct tacagntttc ccaaggtttt gatgagcaca 180  
 tatcatctac caaaatggng catcggaatt tgagtcttct gcaattgatg gtgtaattgg 240  
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 tatacaggta attatcttca agaaatcctt tccacaattt tgctcgggtg gntntagttt 180  
 tgtcaacatc tatgggtgta ttattttttt acatatgtnc aaaattcttt cattaattcc 240  
 gacgatgggt tttgctcacg tgtgagaatt caagctaatt ctattttttt ctcgagggga 300  
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 agctttccca cagagttaat aatagcacct attatgggaa atccaatcgc atatccagct 180  
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attgctggac aggacatcaa gtgaaggaaa tgctacttta actttagcgc ccatatggca 180
gttgatgaga gcttatactt tatctgtgtt gacacgtttg gcaaactg gaagtccaat 240
aattgaaaga gaaattgttc agtgggtgaa taccaagcta gcaggtgcca ataaaacaac 300
atctttgagt agcttccaag acaaaacaat ttcagatgct aaagttgtaa tagacttaat 360
cgatgccatt aaaccgggaa ctatcaatta tgacttagtt aaatcttga aatcccaaga 420

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<210> 757
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tttcatcatt ttcacgcag gaaacacatt cgtgtttttt agcatcacca ttgcattcat 180
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tcaaacaagt atcttttagga ttgagacaaa cttctttggc atcatcttta gcattgcaaa 360
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ataccagcaa ttccccccca agctttttagg gaaatcagga tgacaccatt gcacaggcct     180
ttcaggcagc aggtgatgga gaatgatcac tgctccatat caatatctct gtttccaaag     240
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ttcaaaacca aattgnccaa aattttcttc attttggtga tgggaggccc gagccttggg     180
aaaaatgtat tgtcccagga tcacttttat gggaatgata acgaaggaac atgtgattac     240
gcacaaaatg tagaatgtta ccaaccagaa taaaacattt ttaatattctg acagcgattt     300
tctgaaacta tattcatact actggtataa taaatttata ttcatgtctc tcctcctata     360
aatttattcc ggtttaataa aatcaattaa aataaaaata aca                          403

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 tatacaatat tatgtaaaat taaaatatgt aagttaatac aatttagaat gatattcagta 180  
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 ataaaagaaa tttttcagaa taatttgcct tatacttatg aatttttaaaa gaatattctc 300  
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 gaactaacia attcactcaa gggtttccaaa acttgataga tgcctacgga gttgctagtt 180  
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FC-8-C3.ST25.txt

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aatcaaaatt attcatttta cgcttaattt tattgggtga actaatagat agatagataa 180  
agatatagag ttaatatataa aatgaagaaa ataaaattaa aagtaagaaa taatacggac 240  
ttctaaatgt aggggggaagt cccttagtgg cggacaccta aagttattta taaataaatc 300  
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gtatcttgtg cagtctttcg gatctggctg atatcttaca cccgcgcatg tagtttctgc 180  
cgcttacagt tttccccagg ttttgatgag cacatatcat ctacacaaaa tggagcatcg 240

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gaatttgagt ctctgcaatt gattgtgtaa ttgggggtttc ttgtccagcg cacaacttca      300
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ctata                                          425

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<400> 768
tggtgactca tttggagttc ttgaagggtg ttcttctacc caagctttnt tagatccctg      60
catgctcatg ttcaagctat gaccaggtgg agggatgttc aattatgtcg aattgagagt      120
tacattgcgc actccttaca cctagtgcgt tcagaactgt tatattctca gtcctgatt      180
ttgtgaaaag catatattct tctaaagggt tcatagtatg attgttgact tcaatatata      240
tatttgagag gcaccttgaa tagcttttga atgtagcaaa tctgggatca tctgtcgata      300
aaccaccgat ttgtatttca ttgattcctt ccttaggaga ttttcaaaaa ttgacttcgg      360
gtaatatattc taaagatact tcagttctgc tattaacaat atggagctgn tgtgatacct      420
tttgtaatag acggatgcct agcaccgttt agaagtttct gctactttgg tccaacacag      480
ccctctctat cttcttca                                          498

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<210> 769
<211> 350
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (8)..(8)
<223> n = unknown

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<220>
<221> misc_feature

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<222> (10)..(10)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<400> 769  
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 gattataatt gcgatttaac atttttaata tcaggaacat ctctgatagc atgtggagtg 120  
 attgcattct ttatccgaac atttatcaga agcaagtgga tagaagaacg agcattgctt 180  
 catatggcca taaccatatt tccgtcgtgt gttgtgaaat gcaattatac tttgagaaag 240  
 tattatcaat tacaagaaa attcagaagt tgctactgaa tcattttcta aaacatcgac 300  
 atgaaaatta ataactcttt attgntatta gattcgatgt aagatatatg 350

<210> 770  
 <211> 405  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <222> (391)..(391)  
 <223> n = unknown

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 tccgatcgaa gagattgtaa aaaatattat caatgtttct tggttaacaa caaatggcaa 120  
 ataaaacatt atgattgtcc aaatggcttg cactttgata aaacggagtt gcgatgcata 180  
 cccacgccac ccggcgaaga atgcaaaagt gagattgcta agtaaggctt aaaccaggaa 240  
 aacaatcttg aatagactaa ttaggattca aattatcata aagtagtcaa ttaatataat 300  
 aaatacacia atgatctgtg caattaaata taaaaaatat gtataaaaat tnaaatgtta 360  
 aaattgattt tatgtaagga gcacaacaaa ngtcattaac tatag 405

<210> 771  
 <211> 292  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (38)..(38)  
 <223> n = unknown

<220>  
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<220>  
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<220>  
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 <222> (216)..(216)  
 <223> n = unknown

<220>  
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 <222> (263)..(263)  
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<220>  
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 <222> (277)..(277)  
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<400> 771  
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 tgcagaataa agtatcttgt gcagtctttc ngatctgggc tgatatacta caaccgcgca 120  
 tgtagtttct gncgcttaca gtttccccag ttttgatgag cacatatcat ctacacaaaa 180  
 tggagcatcg gaatttgagt ctctgcaatt gattgntgtt aattgggggtt cttgtccagc 240  
 gcacaactca aagtagaaca atngtgacaa aatgttncca ctgcttatta at 292

<210> 772  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n = unknown

<400> 772  
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 gtgcaaaagt gaaaacgttt tttccgatcg aagagattgt aaaaaatatt atcaatgttt 120

FC-8-C3.ST25.txt

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cttgggtaac aacaaatggc aaataaaaaca ttatgattgt ccaaattggct tgcactttga      180
taaaacggag ttgcgatgca taccacgccc acccggcgaa gaatgcaaaa gtgagattgc      240
taagtaaggc ttaaaccagg aaaacaatct tgaatagact aattaggatt caaattatca      300
taaagtagtc aattaatata ataaatacac aaatgatctg tgcaattaaa tataaaaaaat      360
atgtataaaa attaaaatgt ataaaattgt attttatgta agagcacaac aaaatgtcat      420
tactattggg aatttctggg tattttaata tataaatttg gagctttttg aattcatggt      480
ctttttaata aaataaat                                         498

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<210> 773
<211> 459
<212> DNA
<213> Ctenocephalides felis

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<222> (30)..(30)
<223> n = unknown

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<220>
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<222> (436)..(436)
<223> n = unknown

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tgtaaaaaat attatcaatg tttcttgggt aacaacaaat ggcaaataaa acattatgat      120
tgtccaaatg gcttgcactt tgataaaacg gagttgcgat gcataccac gccacccggc      180
gaagaatgca aaagtgagat tgctaagtaa ggcttaaac aggaaaacaa tcttgaatag      240
actaattagg attcaaatta tcataaagta gtcaattaat ataataaata cacaatatgat      300
ctgtgcaatt aaatataaaa aatatgtata aaaattaaaa tgtataaaat tgtttttatg      360
taagggcaca aacaaaatgt cttactatag taattctgat attttaaata ttaatataga      420
agctttttga atcaanaaaa aaaaaaaaaa aaaaaaaaaa                                         459

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<210> 774
<211> 428
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (32)..(32)
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<220>  
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 <223> n = unknown

<220>  
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<220>  
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 <222> (80)..(80)  
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 gcntaggttt taaaaaaaaatn gggatttggg catttcatga cgggcaatca gcttctgacg 120  
 atttcttttt acacatatatt ttagaatgat catatacata gttagggtggg cattcgaaac 180  
 ctgaccttta ccatctttgc agaataagta tcttgtgcag tctttcggat ctggctgata 240  
 tcctacaacc gcgcatgtag tttctgccgt cttacagttt tccccagggt ttgatgagca 300  
 catatcatct acacaaaatg gagcatcgga atttgagtct ctgcaattga tgggtgtaatt 360  
 ggggtttctt gtcagcgcac aacttcaaag tagaacaatc gtgacaaaat gttccactgg 420  
 ttattagt 428

<210> 775  
 <211> 499  
 <212> DNA  
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<220>  
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<220>  
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<220>  
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 <222> (482)..(482)  
 <223> n = unknown

<400> 775  
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 ggacgttggg tcacaaaatg attaacagtt atagaatgcc atgtgtttta tacgcagttt 120

FC-8-C3.ST25.txt

acaatataat gttactattg ttagttggca tactgtaccg agttttattt tttttatgaa 180  
aaagaagata gagtggccaa attattttgg tcatgtgata tttgttccat taaagattat 240  
atgaggatcat gtgcattggt agtgcattgat ttaatatattt tgtacgttgc ggaattgatt 300  
tgtggtggag atactgtatt aaaggtttca aatagttttg aaactgctct tgtgtgaaat 360  
tagtaatagc tccaattcaa tctaggatgc ttggtcttcc tttatgttca gcacttgtat 420  
actttatcta cttatcaatt attttagacc angctcgccc ttggccagaa tatttgaccg 480  
anttaaagtt taatgatcc 499

<210> 776  
<211> 393  
<212> DNA  
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<220>  
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<220>  
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<222> (365)..(365)  
<223> n = unknown

<220>  
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<223> n = unknown

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taattttctt gaatattgtg atacctcgaa ggaaagtctt tgtatctaaa tattcatcat 120  
ggcatgcag caatactggc gtgttattca tgggagaaaa accaaaagcc ggcatgcaa 180  
tttctcttat atatctgcta tctgttgag ctggaaaaac ttgtgggtcaa gaacaagtcc 240  
catttcatca gtagctcttt taaatgctgc caaattttat tgcttcattc agttcagtgt 300  
tgctatcagt ggtctttttg gtcaaatac tttcaacatc cttgncagct ctttgcccat 360  
ttcgnatctt tcttccaatc ctgnggctaa gga 393

<210> 777  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis



<220>  
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 <223> n = unknown

<220>  
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 <222> (493)..(493)  
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<400> 777  
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ctgcatgcaa nagtgaaaac gttttttccc gntcgaagag attgtaaaaa atattatcaa 120

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tgtttcttgg ttaacaacaa atggcaaata aaacattatg attgtccaaa tggcttgac 180
tttgataaaa cggagttgcg atgcataccc acgccacccg gcgaagaatg caaaagtgag 240
attgctaagt aaggcttaaa ccaggaaaac aatcttgaat agactaatta ggattcaaat 300
tatcataaag tngtcaatta atataataaa tacacaaatg atctgtgcaa ttaaatataa 360
aaaatatgtn taaaaattaa aatgttttaa attgtattta tgtaaggagc acaaacaaaa 420
tgncattaac tatagtaatt ctgattattc aaatatntna atatagaagc ttttgaanca 480
cacataaaaa aanaaaaa 498

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<210> 778
<211> 363
<212> DNA
<213> Ctenocephalides felis

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<220>
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<220>
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<223> n = unknown

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<220>
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<222> (192)..(192)
<223> n = unknown

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<220>
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<222> (270)..(270)
<223> n = unknown

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gggagaaaaa tattagaaaa attggaatag gtctaaaaca ttttcctaac ataggganga 120
ccctacagca actcgggtat actcaaaaaa gtttgttgaa aagttnngata aatattcaca 180
gcgcttcact gntttgttct tgagtttagg aaaaggcatt tatttataac ttttggaccg 240
gtttatttga ttgaaatgaa atattcggcn aatttataga aaattaaata atctacaaat 300
ttttcttttc cgcaccagaa accaccaaaa tattccttcg gcttatacgg gtaaacaatca 360
caa 363

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<210> 779

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<211> 428  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (387)..(387)  
 <223> n = unknown

<220>  
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 <222> (393)..(393)  
 <223> n = unknown

<220>  
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 <222> (410)..(410)  
 <223> n = unknown

<400> 779  
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 gggtaaatat tcgaaagctc aatacacaag cgggtataaat ctagaagttt ttcatacaaaa 120  
 catttttgctt tatgcaacgc cgccagacat cacctccaga catgctttca ttaggaaatc 180  
 aagtatttgg natctttata tgtgtgnata atctgcatat aaatgggctg cacaactagc 240  
 cataacatgc ttctcattgt aaacgtgctg ctgtgtgctg ctgaacaata tcaactttct 300  
 ggagacattt tagagcaa atgtctgtctg ggtgggtggat gactgacagt tcacgcgacc 360  
 aatccgccac gcccaagtcc ttggcgngac ccnctaaccg atttgagatn tctcacactg 420  
 gcggcgctc 428

<210> 780  
 <211> 331  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 <223> n = unknown

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 <223> n = unknown

<220>  
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 <222> (133)..(133)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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 tagtccttaa aaaatacatg aatgaaattt ggcgaaatgt aaattcaaaa atatataaaa 120  
 tatttaaaaa atntagtcac attttgangg ttacaggaac atgtcccctt cagtatttct 180  
 tttattttca attacgaaaa tcagaaaaca gttnttccaa gatcatggnt cttgttcctt 240  
 tctttaagct tatttcctat cctaaagngn taactattac tcctaaactg cgatgatatt 300  
 tgtgatgaat gatgttgaca tgatgtccga a 331

<210> 781  
 <211> 271  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (254)..(254)  
 <223> n = unknown

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 gattaaataa aggcttcaac attttcactt agtgaaaatt tgagggtagg gtttgatttt 120  
 agtgategntt aaaatgatgt aaaataatac tgccttttat tataagaact tcttatatta 180  
 tataaacagg tatgatcttg gttttgacaa aagtttgtaa tattggtttt gggtatattg 240  
 agcaaaatcc ctgntggctc cacaagcaag a 271

<210> 782  
 <211> 431  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (49)..(49)  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
 <221> misc\_feature  
 <222> (259)..(259)  
 <223> n = unknown

<220>  
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 <222> (426)..(426)  
 <223> n = unknown

<400> 782  
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 acaataattc gatttcaaca angatattgn attttaattt taatttatat tgatcacaaa 120  
 ttaataactc gttacattgn aataatacta aacaatctat ttacaattaa aaacactcct 180  
 ttcgcaaaact ttaattctcc ttcttgatgc gtgtggatgt cattctgtaa ataatggagt 240  
 ccctgccagg gtccattgng gagatcgaga tcagatagca agtaacgaga agaaaaaggc 300  
 tctcccaacc ataaaatgat gttaaaaacc accgggtagg agtcgttgta ttctttacta 360  
 ggtgaaatcg ggttcttttg gagcatcatc tgcttgccctt gcttacgtgt taagacgtca 420  
 ttaganggta g 431

<210> 783  
 <211> 208  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (16)..(16)  
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<220>  
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 <222> (99)..(99)  
 <223> n = unknown

<400> 783  
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 tccgcaatta tgacgtaacg gatcatatgc aaaatttgng gggcaataat attgggttcc 120

tatactatattt tcgtcacaaat aataatagct ttgacaatca tttatatattg gataaaatct 180  
cgatgggtgac ggacatttga aaccttgt 208

<210> 784  
<211> 388  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (55)..(55)  
<223> n = unknown

<220>  
<221> misc\_feature  
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<223> n = unknown.

<400> 784  
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ttccaccagt gggatcgaga aataatcgca caattagctg tgttcgtgcc ctggaccaat 120  
atgtaaatgg ccaaggaggc tatgccactc ttgtcaatgg tggagttggc tggaaaaatg 180  
taactttact cctatcttct cagactggca aaggatttaa cttcttagtt gaaatttggg 240  
gatattagat tagaaatata atgaaaaatgt gaatatagaa aaaaaattaa atatacaata 300  
gtatttttaa tttggcacac atctatctat gcatccataa ataaaggnta tatacagcat 360  
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 388

<210> 785  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (23)..(23)  
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<220>  
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<223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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<220>  
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 <222> (479)..(479)  
 <223> n = unknown

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 atgcaaaaagt gaaaacgttt tttccgatcg aagagattgt aaaaaatatt atcaatgttt 120  
 cttgggttaac aacaaatggc aaataaaaca ttatgattgt ccaaattggct tgcactttga 180  
 taaaacggag ttgcgatgca taccacgcc acccgcgcaa gaatgcaaaa gtgagattgc 240  
 taagtaaggc ttaaacagg aaaacaatct tgaatagact aattaggatt caaattatca 300  
 taaagtagtc aattaatata ataaatacac aaatgatctg tgcaattaaa tataaaaaat 360  
 atgtattaaa atttaaatgt ataaaattga ttttatgtaa gngcaciaaac caaatggcat 420  
 tactatagga attctgatat ttaaatntnt aaatatagga gctttttgaa tttaaantna 480  
 aaaaaaaaaa aaaaaaaaaa 498

<210> 786  
 <211> 438  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (90)..(90)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown



<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (305)..(305)  
 <223> n = unknown

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 tattagagta aataaaactca ctttaaaagn ggatttttga taatgnatat gtgaatgctc 120  
 tttgagtccc aaaaatatat aagtatttta taaaccgatg aaaaactgaa cagtccattg 180  
 cacaacaac tatttagctt gatcattaag ttgatacatg taaaaattgn cactcgcata 240  
 caaagatttt taaatgntaa tttaagggtta catTTtatttg gttatataat tctgnatttg 300  
 agggnaataa gaacgtagat tattgagtca aatcaaactt attcttgaca tgccaatggc 360  
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 tgaatttnat ttttgcacaa gttccttttt gnattaaaat atatgtatat ttatgaatat 180  
 gtattttcttg gatttttaggg taaantcntt atanaataat ttggaaatac atattnataa 240  
 tgctaaagtt taaattgggt tttttccatt aaaatccttt ttaacattat acatatatatt 300  
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tatcccaaag aactaagtna atcagacagg gcctgaatta tcaagtgcta agactattgt     180
atcaggagga cgtgggttta agtctgggtga taatttcaaa ttattatttg acttagcgga    240
taagatagga gctgcagtag gcgcttctag agccgcggta gatgctggat ttgccaaat     300
gatatgcaaa tcggcagaca gggagattg ttgcacctga ctctatattg ctgtggaata     360
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agtaaattcc tttttggaat ttcgaatggg gtgnccatta cggnaaacia agtntcctcg 180

tcaacagttg catgaacttt gccttcaacg tcattcctaa gtatggggnt tctttattct 240

tgggttggtat tatgtcttta gtgaccttaa attcctcctc aggatcccaa ataactaaat 300

caagcatcca agccttcttt gatttgnctt tttatgccat cagnccagtt aatttngcag 360

gccgcagat aataaacgag atcatcatga gcttttaaagc cccttttaga agcncggcca 420

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ttgtttgtgc tccttacata aaatacaatt ttatacattt taatttttat acatattttt	180
tatatattaat tgcacagatc atttgngtat ttattatatt aattgactac tttatgataa	240
tttgaatcct aattagtcta ttcaagattg ttttcctggn ttaagcctta cttagcaatc	300
tcacttttgc attcttcgcc ggggtggcgtg ggtatgcac gcaactccgt tttatcaaag	360
tgcaagccat ttggacaatc ataatggttt atttgccatt ggtggtaacc aagaaacatt	420
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 attctagaat ataantgcga tttaacattt ttaatatcag gaacaatctc tganagcatg 180  
 nggaggggat tggattcttt ataccgaac atttatcaga agcaagngga tagaagaacg 240  
 agcattgctt catatggacc ataaccatat ttccgncgng ngntgggaaa tacaattata 300  
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ctaaacaatc tatttacaat taaaaacact cctttcgcaa actttaattc tccttcttga 180  
tgcgtgtgga tgtcattctg taaataatgg agtcctgcc aggggccatt gtggagatcg 240  
agatacagat agcaagtaac gagaagaaaa aggctactcc gaaccataaa atgatgttaa 300  
aaaccaccgg gtaggagtcg ntgtattctt tactagggtg aaatcgggtt cttttgggagc 360  
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 tgtattatat tccctattat ataatacaat ttattataaa attaactatc taatatatcc 180  
 cgtgtaatta attatttttaa taacgatttt tttacttttt ataatatata tgtattatat 240  
 tccctattat ataatacaat ttattataaa attaactatc taatatatcc cgtgtaatta 300  
 attatttttaa taacgatttt ttactttttt ataatatata tgtattatat tgcaaaaatg 360  
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 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ctgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
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 actttgntaa aacggagntg cgatgcatac ccccccccg gcgaagaatg caaaagtgag 180  
 attgntaagt aaggnttaag ccaggaaaac aatcttgaat agactaatta ggattcaaatt 240  
 tatcataaag nagtcnatta atatnataaa tcccnatga tctgngchat tnaatattaa 300  
 aaatatgttt aaaattaaaa tgggntaaaa tgnattttatg gtangggccc aaccaaangc 360  
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 aatacaatca agatataaca gtgccacaat attattaaaa tacgtatttg tgacgaaacc 180  
 taaagtgtag tcagaatata aaaaacaata atatttatac cttcaaagt atgctttgaa 240  
 aaaaagcatt cgaagatttt gtttaaatat tttgttaagt ccacatttat gtttgntcgt 300  
 caattnaatt atgtttcttt tgcaagtaag attatgtg 338

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FC-8-C3.ST25.txt

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gataaaacgg agttgcatg cataccacg cccccggcga agaatgcaaa agtgagattg	240
ctaagtaagg nttaaaccag gaaaacaatc ttgaatagac tnattaggat tcaaattatc	300
ataaagtagt caattnatat natnaatacn cnaatgatct gtgcaattaa atntaaaaat	360
atgttttaaaa ttaaaatgtn taaattgttt ttatgttagg ngcncaacca aatggcatta	420
ctttanaatt tctgntatct aaaattntta atatngagct tttgaaggga aaaaaaaaaa	480
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taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactatat aatgattatt	180
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caagatctaa cacacaattc atntaacaga aagaacaaaa taattttaat gttattaaaa	300
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcatgc ataccacgc cccccggcga agaatgcaaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300

FC-8-C3.ST25.txt

ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
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gctaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat 300
cataaagtag tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa 360
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 cagtggcttt cgccaaggat ttcgccgcag gtgggtatttc tgccgcagtc tctaagactg 180  
 nggtagcacc catcgaacgt gtcaaattgc tcttgcaagt caacacattt ccaaacaaat 240  
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 gnaatttttc ggncaaatat tcaacatcag caacgatatc ctcatcatct gacgtctttg 180  
 ttccaggatg gataattgnt tcaatacctt gctttgcccc ttgcaatgca atgctccttg 240  
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 caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgnat 180  
 agattttgaa taataacata gaaattatac tttttttttg atgactctaa taaaaaaaaat 240  
 gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc 300  
 catgtctgaa aagatttcta tgnngnat tttggtaaca tttattgntg aatggntaaa 360  
 aagataaata ccattttata agctgnttgg atnaattatt ttggataaat ccatatcata 420

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 cattaaaatt attttgttct ttctgttaga tgaattgtgt gttagatctt gtgctgtgat 180  
 ttacatacaa ttttaatacag attgaaatgc aatctataaa agcattatct caataatcat 240  
 tatatagtaa ttttgatctt gactatctgc agataaattc attacattctt aaaatgttta 300  
 ctttattaag ctatacaaac cttgaacttt acactttgta tttctagaac ataagtatta 360  
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 agataggagt aaagttacat ttttccagcc aactccacca ttgacaagag tggcatagcc 240  
 tccttggcca ttacatatt ggtccagggc acgaacacag ctaattgtgc gattattttct 300  
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 aggaagaccc tacagcaact cggtatactc aaaaaagttt gttgaaaagt tgataaatat 180  
 tcacagcgct tcaactgtttt gttcttgagt ttaggaaaag tgcatttatt tataactttt 240  
 gaacggntta tttgattgaa atgaaatatt cggcnaattt atagaaaatt aaataatcta 300  
 caaatttttc ttttaccgcg aacagaaacc aacaaaatat tcctttcgct tatccnggta 360

accatcacaa aatgnatcga atcaatattt tttaaaattg gaaatttgca aatgataaat 420  
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tttatacatt ttaattttta tacatatttt ttatatttaa ttgcacagat catttgggna 180  
tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt 240  
gntttcctgg nntaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgn 300  
gggtatgcat cgcaactccg ttttatcaaa gngcaagcca ttggacaat ccaatgnttt 360

atttgccatt tgggtggtaac caagaaacat gataatattt ttacaaatct ctttcgatcg 420  
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gatggnaaag gncaggnttt cgaatgcccc ctaactatgt atatgatcat tctaaaaata 180  
tgtgtaaaaa gaaatcgag aagctgattg cccgcgatgaa atgccaaatc caatttttta 240

tacctatgcc cgggccatca atttatgctt tgggtgcaatg acaaattgna accattcggt 300  
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FC-8-C3.ST25.txt

aacctgcctt taccatcttt gcagaataag tatcttgngc agnctttcgg atctgggtga	120
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cacatatcat ctacacaaaa tggagcatcg gaatttgagt ctctgcaatt gattgntgna	240
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aatagaacta acaaatcac tcaaggnttc caaaacttga tagatgccta cggagttgct	180
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ttgactactt tatgataatc ttgaatccta attaggctat tcaagattgt tttccngggg      180
taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg gtatgcatcg     240
caactccgnt ttatcaaagt gcaaagcc                                         268
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tataattgca tttcacaaca cagcagcgaa atatggttat ggtccatatg aagcaatgct      180
cgttcttcta tccacttgct tctgataaat gttcgggata aagaatgcaa tcaactccaca     240
tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat      300
tcctacaaca ttgcttccaa caacactttc taatcgaccc atcattaaag atatacatat      360
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<210> 818

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<212> DNA

<213> Ctenocephalides felis

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ttcttctatc cacttgcttc tgataaatgt tcgggtataaa gaatgcaatc actccacatg     180
ctatcagaga tgttcctgat attaaaaatg ttaaatcgca attataatct agaattattc     240
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ctacaacatt gcttccaaca acacttctaa tcgacccatc attaaagata tacatactgc 300  
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gcatgagacc atcacgaata caagaattgg aagctttccc acagagttaa taatagcacc 180  
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ttccattaac aagtccgatc aaactcctca gaatcgtggg ctcaaaactg ccagtatttc 240  
aggagggcat ttgagtaaga ggcaatgtca tcaccgcaa attttacgca caaacgcaat 300

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 cattttggtc acaagttggg caacgttctg gntttttctc gcacattttt ttcagatttt 180  
 ggttcttgaa caggntgctg gtgcacctaa tttgatggca tcaccttggt cattcagaat 240  
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<210> 822  
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 atatttaatt ttttttctat attcacattt tcattatatt tctaacttaa tatccccaaa 180  
 tttcaactaa gaagttaaatt cctttgccag tctgagaaga taggagtaaa gttacatttt 240  
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 gccctttatt ccttttttg cgggcatttt tgccttcctt gtttttgctc acccagaaac 240  
 gctggtgaaa gtaaaagatg ctgaagatca agttgggtgc acgagtgggt tacatcgaac 300  
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 aagggagatg ttggaagaga aataccgct tcaccctcgg cgagttttac ccacgtgatt 180  
 ctgcgattaa aaatcttact aaagtttcca tcaataccat attttatttc cctttatatg 240  
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 aatgtcgatg ttttccaga aatcgagggg ttgcaacgc tnaagatgat gccaaggaag 180  
 tttgtctcaa gccacaagat acttgtttga gtatttttaa tgcacaaggt gatgccataa 240  
 aattaggggtg caccagcaac ctgttcaaga accagaatct gaaaaaaaaatg tgcgagaaaa 300  
 aaccagaacg ttgccaactt gtgacaaaaa cgaatgcaat ggtgatgcca aaaaacacga 360  
 atgtgtttct tgtgatgaaa atgatgaaaa ttgcttgacg acccttgaaa aagtcgagac 420  
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 nggtgctcta tcttcacttc tgggatattt ccatcgcaat tatcaaaggg ctttgaaaaa 180  
 cagatgtaga tgtagtgaa ccaagaaaag cgcgtgttat aaaaacaata aaccaactgg 240  
 gaagtaaattg ctgnaattag tcttcgggga cgattgtgat gagacttaag taaaataactg 300  
 gncctcttcc aatcctatct cctaattgcc aaaaataaat gtgcctatga cttcgccgcg 360  
 acgtccaata gcaaatgnat tagttacata gaggtctcta tcacaaaccc agcttgatct 420  
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gggggcatte gaaaacctgg nctttaccat ctttggagaa taaggatctt gngcagtctt      180
tcggatctgg ctgatatact acaaccgngc atgtaggttc tgncgnccta cagntttccc      240
aggttttggg gagcacatat catctacaca aaatggagca tcggaatttg agtctntgca      300
atttgatggt gnaattgggg gttcttgnnc agcgcacact ttnaaagaga caatcgtgaa      360
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ctcttaatgg agaatgcaat tagagggtgnt aagagaaaaa tccctcagga aaaccagaaa      180
aaggttaccg ggatcatgag tttattttct agnttaccgg ttagctagaa atctcactta      240
ttgggctttg ctggattgga tgggtcccggg cgtatttttac attaattttg aacgngagcc      300
atatgggagg gtaatcattt ctcaactttt tatatcaatc ggcagtagaa ttaccagcat      360
atctactagg gccgttcttc agcgacagaa taaggaagac gttggnctct gnagcttctt      420
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aaattggncc cactggtagn                                     500

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ctcgactttt ttcaggggtc ggtcaagggc aaattttcat caattttcat cacaagaaac 180

acaatccgtg gtttttttggc atcaccatt gcattcgntt tttgtcacia gttgggcacg 240

gtctggnttt tctcgcacat tttttcagat cttgggtcttg acaggggtgct ggtgcaccta 300

atttatggca tcaccttggtg cattaaaata ctcaacaag atcttgnggn ttgagacaac 360

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<210> 831

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gaaccattag accacaaata atatatacact agacattttt aggaagtta cagttngtta 120  
tacaattctt aaactaattt agttatcagt aagttttaag cagtcggcac agtctttacg 180  
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ttttcggtaa gctccanaac acctgatccc tgccgaatac gtgagcttca gttagcgttt 180  
ccgggaactt ttggtgtaaa gnttccggca agaacattcc ggaagtcgcg cccaccatca 240  
tcattacgga aagt 254

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 tttatcacta ccttatctat aatcatatca cctcacataa atttcatacc atggntgtat 180  
 ttacaaaatt cagacagtag ttgacagaga tgtattcgaa atttgaatca ttaaacaaaa 240  
 atatttigat aaaattgata tgtctctcct taaaaaaaaat tgaatttctc atttataatt 300  
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 attcccgaag ggatgatgtc ttttaataaa cagccaaatg aattttcaca atggatttta 180  
 caaaaatggt gaattttgtg aaaaaagtgg tattaact gtatggagcc ggagaagtgc 240  
 aaagaagttt tgaaggagag aattgagaaa atattttttt tcctctaata tgatttaaat 300  
 aataaattta tttatgataa taaatctaaa attagcatat gacatatcgt atgaaacttt 360  
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 aaaaaaaaaa 430

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 cctatgcctc acatcagtgt ccttcatgtg atcaggagta ttttttcgat ctggactttg 180

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atctgtatca ctctctcca tttcagcttt gttgcgtttc ttttcataaa tgagaataat      240
cgcgcataaa attattactt cagcacagat acccaaaaat ggccacaaag cagctaattt      300
atcttgaact cgaaccaagg ntgnagaatt aacagtaatt ccaatgcctt gattagtagc      360
aatacatgta tattctcttc gacgcttttt cagccaaaca atttccaaag cagaattngn      420
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<210> 836
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taacattaaa attatattgt tctttctgtt agatgaattg tgtgttagat cttgtgctgt 180

gatttacata caatttaata cagattgaaa tgcaatntat aaaagcatta tttcaataat 240

cattatatan taattttgat ttgactatt tgcagataaa ttcattacat tntaaaatgt 300

ttactttatt aagctataca aaccttgaac ttacacttt gtattttcta gaacatangt 360

attaaataaa ttgttaaaaa tatntggggg ntagattttt ctattgntaa ttggcgt 417

<210> 838

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<212> DNA

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tggtcatcat tacgtctgag ttgtccacta aattcaactt tttttccatt ttcttccatg    120
acatgtctga attttatttt accatcaact aaagattcca tgtgagctct tgcgcaagtt    180
ccatctcggt caaaatgatt ttggtatcta tattgttcgt                          220

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 aaaagntgga taaaaaaaag gggaaaatca ttgctaata tgcaactcat aattattaag 180  
 gaaattgggt ataacaacta ctacattatc agatctatcc gnccttctta atattcaata 240  
 atattatggn tatcaggccc cttatcactt tatagatttt taattaatct atttaaatatt 300  
 aaataaaaaa taaattttaa accattaaac cgatacattg nctttaaatg aaataaatca 360  
 ccataacctt tattaagctt gggtgnaata tgcaatagca atttcatata cacactcact 420  
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<210> 840  
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 <212> DNA  
 <213> Ctenocephalides felis

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 gacatgtctg aattttatct taccatcaac taaagattcc atgtgagctc ttgcgcaagt 180  
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 ggcttaaacc aggaaaacaa tcttgaatag actaattagg attcaaatta tcataaagta 180  
 gtcaattaat ataataaatc acaaatgatc tgtgcaatta aatataaaaa atatgtataa 240  
 aaattaaaat gtataaaatt gtattttatg tnaggagcac aaacnaaatg ncattactat 300  
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 ttgntctaata caaaattatt cattttacgc ttaattttat tggttgaact aatagataga 180  
 tagataaaga tatagagtta atataaaaat gaagaaaata aaattaaaag taagaaataa 240

tacggacttc taaatgtagg gggaagtccc ctagtggcgg acacctaaag ttatttataa 300  
ataaatcaaa aaatatttt 319

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cgggtgcaaa tcagcttctg gaccgaattt cttttttaca catatttttt agaatggaat 180

catattacca taagttaggg tggggcattc gaaaacctga cctttaccat ctttgcagaa 240

taaagtatct tgtgcagtct ttcggatctg gctgatatcc tacaaccgcg catgtagttt 300

ctgccgcctt acaagttttc cccaggtttt gatgaagcac atatcatcta cacaaaatgg 360

gagcatcgga atttgagtct ctgcaattga ttgttgtaat tggggnttct tgtccagccg 420

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<212> DNA

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tacaatagca acctctgcct gaaaattaac cgaacaaact tctaacatcc ttattaatgt 180

atagattttg aataataaca tagaaattat actatTTTTT tgatgactct aataaaaaaa 240

atgtataaat ggccatgcct gatataTTTT tgataacctt aatgaaaaaa tgtttaaatg 300

gcatgtctg aaaagatttc tatgtgtatt tttttgntaa cattttattg ntgaatggat 360

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ttaatttttta tacatatttt ttatattttaa ttgcacagaa catttgngna tttattatat 180



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taattgacta ctttatgata atttgaatcc taattagtct attcaagant gntttcctgg	240
nttaagcctt acttagcaat ctacttttg cattcttcgc cgggtggngn gggatatgcatt	300
cgcaactccg tttatcaaag tgcaagccat ttggacaatc ataatgnttt atttgccatt	360
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cctatgcctc acatcagtgt ctttcagtgt atcaggagta ttttttcgat ctggactttg	180
atctgtatca ctctcctcca tttcagcttt gttgcgtttc ttttcataaa tgagaataat	240
cgcgcataaa attattactt cagcacagat acccaaaaat ggccacaaag cagctaattt	300
atcttgaact cgaaccaagg ntgnagaatt aacagtaatt cccatgcctt gattagtagc	360
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cattagaaac attttgaata attttcttga atattgngat acctcgaagg aaagtttctg 180

tatctaaata ttcattcatgg tcatgcagca atactggcgt gttattcatg ggagaaaaac 240

caaaagccgg cagtccaatt tctcttatat atctgctatc tggtgcagct ggaaaaactt 300

gtggttcaag aacaagtccc atttcatcag tagctctttt aaatgctgcc aaattttatt 360

gctttcattc agttcagggt tgctatcagt gggctctttt ggtcaaatct attcacatcc 420

ttgccagctt ctttgaccat ttcatctttt cttccaattc cttgggggct aaggangggg 480

naaacgttat caaaaactgc 500

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<212> DNA

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ttaggtgtaa gaagattaga actaattcta tttgtttact acttttgta ctcgtattta 180

attttgattt aaattatgta tggtatttta gaaagcactg ataagtataa ggaattgttg 240

aactgtattt tataagactg ctaggcaaat cacgtttatt tataaaaaaa tgt 293

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 gcaaatatga taaggcattt aagaatttta caatttagat ttttttaa at ccatgaatat 180  
 atttgttcta atcaaaatta ttcattttac gcttaatttt attggttgaa ctaatagata 240  
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 ttaaaggnc tttttttatt ttcattatgn gccctaataa gattttatact taaaacaata 180  
 aaaaatgcgt tttattaaaa gttgcaagca gttaaataaa atgttgaata aataatagng 240  
 ataatcatt gcataatgat gcaactcata attattaagt aaattggcta taacaactac 300  
 tacattatca gatctatccg tcacttctta atattcaata atattatgga tatcaggcct 360  
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 acc 423

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 gaagttggaa ttgaaagcta acaagtttat ttttctgtga tcatttggat tcaagttata 180  
 ttattttctat ttgtgattgn ctataaaaac aatgaatatt gnttcattgn tccctgctaa 240  
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 cacaagaagt taagtctttc ttttttttat tagtgnttaa ataatacctt ttcgtgaaga 360  
 gaagggntga ttgnatattt catttgacta agaacctagc tggtatgctt ccaagaaagc 420  
 ccaacttacc aataaccttg gaaaattatg aagaggattt tttaagccag ccttaagnga 480  
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 aaattttgaa taaatttcgt agttgttgaa tctattgggc attttgtttg atccagtcca 180  
 cataagcaga gaccctgggtg taaactgatg ggtatccaac accaccgcaa ggaatgtagc 240  
 cccaggacac aacacccaaa agtgtagcct cgcttccgtt atattgtaca agtgggccac 300  
 ctgaatctcc agagcaagcg ctaactccac cagtcaaggg tccagtgcac aagtttgttg 360  
 ggtgcaatgg agtagatcct gctcctccta gagccttttc acattcgggg tatggtccaa 420  
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ataaaacgga gttgcatgc ataccacgc caccggcga agaatgcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgn	420
cattaactat aggtaattct gattntttta aatatataaa tatagaagct ttatgaaatt	480

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taccgtgcag catacttttg attctatgac accgctcgtg gaatgttgcc agacccaag	180
aacaccccat tagttatcag ctgggccatt gcacaagccg tcacaactgt tgctgggtatt	240
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gccctaataa gatattatact taaaacaata aaaaangcgt tttattaaaa gttgcaagcn      180
gttaaataaa atgttgaata aataataggg ataaatcatt gcataatgat gcactcataa      240
ttattaagta aattgnctat aacaactact acattatcag atctatccgc acttcttaat      300
attcaataat attatggata tcaggcctct tctcctttat agatttttaa ttaatctatt      360
taatattaaa taaaaaataa atttaaaacc nttaaccgg tcnttggcct ttaaa          415

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tgccaagatc gttgcattat ttggt                                           145

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<210> 859  
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 cacgaattca cgcaactaaa ttttactttt ttacattttt gctcggggtt cggt 174

<210> 860  
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 catatgatcc gttacgtcat aattgoggac ctatggctct gggcacaaaa tgctatacag 180  
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<210> 861  
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 cttacataaaa atacaatttt atacatttta atttttatac atatttttta tatttaattg 180  
 cacagatcat ttgtgtatth attatattaa ttgactactt tatgataatt tgaatcctaa 240  
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gatatagagt taatataaaa atgaagaaaa taaaattaaa agtaagaaat aatacggact    180
tctaaatgta gggggaagtc ccctagtggc ggacacctaa agttatttat aaataaatca    240
aaaaatattt taaaaaac                                     258
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<210> 863

<211> 445

<212> DNA

<213> Ctenocephalides felis

<220>

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<223> n = unknown

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tgcacaaaata aaattcacca ttataaaata atatagtgtc attttttttac aattctaaaa    180
ataataaaat agtttcttat ataaaaaacg atcggntgca atttgtcatt gcaccaagca    240
taaattgatg ggtccggtgc ataggttata aaagaattgg gatttgtgca tttcatgacg    300
gtgcaatcag cttctgacga tttcttttta cacatatatt tagaatgatc atatacatag    360
ttaggtgggc attcgaaaac ctgcctttac catctttgca gaataagtat cttgtgcagc    420
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<210> 864

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<212> DNA

<213> Ctenocephalides felis

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<400> 864

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actgcttgca acttttaata aaacgcattt tttattgttt taagtataaa tcttattagg	360
gcacaatatg aaaataaaaa taagaacttt atacaaaagc tttttttata caatatgctt	420
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gtttcttggn taacaacaaa tggcaaataa aacattatga ttgccaaatg gcttgcaactt	180
tgataaaacg gagttgcat gcataccccc ccccgccga agaatgcaaa agtgagattg	240

FC-8-C3.ST25.txt

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tttttatgta aggagcacia accaaatgnc 420  
 ataactatag taattctgat tntttaaaaa tataaatata gaagctttnt gaaattcatg 480  
 ttctttttta taaaaataaa 500

<210> 866  
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 <213> Ctenocephalides felis

<220>  
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 ctgcacgaat tcacgcaact aaattttact tttttacatt tttgctcggg tttcggtaca 180  
 aaatgctata cagttacatg tcctgcacag cctaaggtgc ttncgt 226

<210> 867  
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 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

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<223> n = unknown

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caattttata ctatagtaac cagaaacaaa aatcagagtg ngnaaaatgn aaattcatat      180
attttttggt aaaaatacaat caagatataa cagtgccaca atattattaa aatacgtatt      240
tgtgacgaaa cctaaagtgn agtcagaata taaaaaaciaa taatatattat acctccaaat      300
gtatgctttg aaaaaaagca ttcgaagatt ttgnttaaata attttgntaa gtcccattta      360
tgtttgntcg ntcaattaaa ttatgnttct tttgcaagta agaatatggt gnagatatgt      420
nccc                                          424

<210> 868
<211> 369
<212> DNA
<213> Ctenocephalides felis

<400> 868
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caacttctga attttctttg taattgataa tactttctca aagtataatt gcatttcaca      120
acacacgacg gaaatatggt tatgggccat atgaagcaat gctcgttctt ctatccactt      180
gcttctgata aatgttcggt ataaagaatg caatcactcc acatgctatc agagatgttc      240
ctgatattaa aaatgttaaa tcgcaattat aatctagaat tattcctaca acattgcttc      300
caacaacact tcctaatacga cccatcatta aagatatata tactgccatt gccctgagtt      360
gtgtagggt                                  369

<210> 869
<211> 380
<212> DNA
<213> Ctenocephalides felis

<220>
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<223> n = unknown

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<222> (61)..(61)

<223> n = unknown

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<222> (128)..(128)

<223> n = unknown

<400> 869

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ttcttggnata acaacaaatg gcaaataaaa cattatgatt gccaaatggc ttgcactttg 180

ataaaacgga gttgcatgac ataccacgc caccggcgga agaattgcaaa agtgagattg 240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360

tatgtataaa aattaaaatg 380

<210> 870

<211> 469

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (25)..(25)

<223> n = unknown

<220>

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<222> (30)..(30)

<223> n = unknown

<220>

<221> misc\_feature

<222> (50)..(50)

<223> n = unknown

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tgtcattgcg atcaaaacca acacagccct tgataaataa tgtatttttc aacacattca      120
aaattaaaat actatgagaa ccaattcaaa ctgtttaaac aagtttgaca aagttgtgcc      180
gttgataatc ctagttgatg tattgtctat taaaatcctg acacttcaag cattgtttat      240
gaatatattg atcaagaata caagggtttt aagttctctc tggaatattt tttgttcttc      300
cagagatggt taattgacag ttgcaatcaa ttgggttttt catagacata cattgtaaca      360
gtatgcttgt ttttaataaaa tcaatcaaat taataaatat ccatgattaa gatttatatg      420
aattaacatt tttattaagt ttttatttat ataaatttac tggaaactt      469
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<210> 871
<211> 462
<212> DNA
<213> Ctenocephalides felis
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<223> n = unknown
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<223> n = unknown
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<220>
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<223> n = unknown
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ttngcaattg gaaaatctag ccacaaattt ttttaacaatt tatttaatac ttatgttcta      120
gaaatacaaaa gtgtaaagtt caagggtttgt atagcttaat aaagtaaaca ttttaaaatg      180
taatgaattt atctgcaa atgtcaaaatc aaaattacta tataatgatt attgaaataa      240
tgctttttata gattgcattt caatctgtat taaattgtat gtaaatacaca gcacaagatc      300
taacacacaaa ttcattctaac agaaagaaca aaataatttt aatgttatta aaaattcata      360
taaaataact tttacaataa agtaacctta catgagatgt gttgatttca gatcttttca      420
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tacaacagtg ctttctgtat aaacaatata atataaatac gg

462

<210> 872  
 <211> 389  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 872  
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 ttgatgttct tcctttatta attggtaacg gtccttgaga tcattgattt cttctacttt 180  
 tttctcatct ttaaaccact gatcaacagg accatctttc aatggacagg ttagaaccaa 240  
 tggactgcga atatcaaaaa gtttttgcca cgtggcttca cttctctgg cataaacact 300  
 gctttggacc aaaaataata aaattgccta cacaaaaact gcttcatatt tattgaattt 360  
 tcttccctcg attggaatag ttcataagt 389

<210> 873  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (201)..(201)  
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<220>  
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ttttgtaaca tacagttaag aacacaatag aaaaatcatt taattagttg gatattttta 120  
gtataagtat tctgtgtag atagcaagtt gtgactacag aataaatatc tgattttatc 180  
acanggtggn naaaaaaaaa naaaannnaa aaaaaaaaaa aaaaaaaaaa a 231

<210> 874  
<211> 431  
<212> DNA  
<213> Ctenocephalides felis

<400> 874  
gggtagttct tggaaaattt cttgacttcc ctgtgataca tttcctgagc ccgtgaacac 60  
gaacgtcaat ggacctacag attttggcat catacctaaa gcgatttcat atccagcatc 120  
ccctatggat tgtctggcca tggaggaatt tctgtaattg tgagccaatc caatatgcat 180  
gaaaggtgta tgatgacca aagctaaaag acgtaaacct aatccgtgca aaatattgat 240  
cataccggca acaccagcat attttccaaa tgctactact ctttggcctt tttcgtccat 300  
caacttttca taatcgataa gacgaatatt cttttccata attgcatcaa gtaaaggcat 360  
attagattct tgggctttga taacatgtga aaacatgcag tagggtttat tgggaattaa 420  
ttgtctacag g 431

<210> 875  
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<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
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aatactgnat aattatttca ttttttatcg ttttttatta ttgaaatgcc cacaacaagt 120  
atacattcaa aatcaaacta tatggtatta gtagtatata aataattatt tacttctact 180  
aattaatatt gncgaattca tattctatct ccatccctat ccctttttta taaatcgtgt 240

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ttcaataatt tacctcaaaa tgagatctaa aatatgaaga aatgatatac aatttcattct	300
atacttatat tttaaaagtg cacaattaat aataaaaaga ttattttact ctcgttcttg	360
agaattgaga tttggctttg gcaatacacg tacaatattc tgacctttca tagcttttaa	420
tataagtaaa ag	432

<210> 876  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (353)..(353)  
 <223> n = unknown

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aacaaatggc aaataaaaca ttatgattgc caaatggctt gcactttgat aaaacggagt	120
tgcgatgcat acccacgccc ccggcgaaga atgcaaaagt gagattgcta agtaaggctt	180
aaaccaggaa aacaatcttg aatagactaa ttaggattca aattatcata aagtagtcaa	240
ttaatataat aaatacacna atgatctgtg caattaaata taaaaaatat gtataaaatt	300
aaaatgtata aattgttttt atgtaagngc ncaaccaa atgcattactat agnattttctg	360
gtttttttaa tatttaattt tgagcctttt gaatcaaaaa aaaaaaaaaa aaaaaaaaaa	418

<210> 877  
 <211> 283  
 <212> DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 877

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aagcaaaactg aatttgatct gaggtaaaac tgaattcaag acataaaaagc atcaccaagt      60
atgtatagat aaaagataaa gattgtaaaa agtttgagaa aactgtttg gatggtgaaa      120
caaaatatag aaaacacaaa agttaaaaaa tatatatact cagcccaaaa taatataatt      180
taaagttatg gttaagtttg ttagtagct cagtggtaat agcattagcc ttgcaaccag      240
aattgcagat tccattcctt cattaaacct gatatcaagc agt                        283

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&lt;210&gt; 878

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (55)..(55)

&lt;223&gt; n = unknown

&lt;400&gt; 878

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tttttttact cggatctata caataagagt ttatttctgc gagtttagaa atggntcagt      60
agcaacttct gaattttctt tgtaatcgat aatactttct caaagtataa ttgcatttca      120
caacacacga cggaaatatg gttatggcca tatgaagcaa tgctcgttct tctatccact      180
tgcttctgat aaatgttcgg tataaagaat gcaatcactc cacatgctat cagagatggt      240
cctgatatta aaaatgttaa atcgcaatta taatctagaa ttattcctac aacattgctt      300
tcaacaacac ttcctaatcg acccatcatt aaagatatac atactgccat tgcctgagtt      360
gtgtagggt                                     369

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&lt;210&gt; 879

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (469)..(469)

&lt;223&gt; n = unknown

&lt;400&gt; 879

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taagggtttc aatttacctc actgcaagtg ttggatttaa gcgagtgcc gttttctctt      60
atagatgctg atatgttcag aggaattgga tctcttagca gtttgaatct cagtagtaat      120
ggaatagtag aaatctatcc aagagctttc gataatttga ttgacttgag atttattgac      180

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FC-8-C3.ST25.txt

ttgacacata atctacttac tttcttacct gacaacgtct tccaaaataa tgatcatttg	240
gatgttatta aaatttctaa caaccgaat ctcatgaatt tgcctagatt tcattcaa	300
ttgtcatcgt ttaccactta tatgtttgaa gcagtaaatt gcggattact tagcttagac	360
aaacatacat ttgctgaaat gccttccatg gctcaactga atttagctca gaactcgatc	420
aaagatttaa aatataatat tttctggcat atgcgccaat taatcagcnt aaatttgggg	480
taatataaaa tcaccaacct	500

<210> 880  
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 <213> Ctenocephalides felis

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<220>  
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tttcttttcgg gataaattat atagnnggtac aaaatgggaa acaaattctt acttctacta	120
agagaggaag aaattgcaag aattcaagat gaaactggct tcaactcaaa tcaaattgag	180
cgtttgtctc aagattcaca tctctagatc gtggagactg nggaactctt tcacgagatg	240
attttttgag aatacccgaa ctcgcaataa atccttaggt gataggattg ccatgcattt	300
tttgctcaaa gtcatgatga cagggtgaat ttcttacagt ttatgcaagt cttagcacat	360
ttcagaccca ttaagaagaa tcgggaaaat aaattgacag cagggaagaa aaattgagaa	420
ttgcttcaaa tgtatgcttg	440

<210> 881  
 <211> 286  
 <212> DNA  
 <213> Ctenocephalides felis

<220>

<221> misc\_feature  
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 ggatttaact tcttaattga aatttgggga tattagatta gaaatataat gaaaatgtga 180  
 atatagaaaa aaaattaaat atacaatagt attttaaatt tggcacacat ctatctatgc 240  
 atccataaat aaaggggtata tacagcattc atttaaaaaa aaaaaa 286

<210> 882  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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 tttttagaat ggatcatata ccataagtta ggggtggcat tcgaaaaacc tgacctttac 180  
 catctttgca gaataagtat cttgtgcagt ctttcggatc tggctgatat cctacaaccg 240  
 cgcatgtagt ttctgccgct tacagttttc cccaggtttt gatgagcaca tatcatctac 300  
 acaaaatggg agcatcggaa tttgagtctc tgcaattgat tgntgtaatt gggggtttct 360  
 tgccagcgca caacttcaa gtagaacaat cgtgacaaaa tgttccaact gcttattagt 420

<210> 883  
 <211> 382  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 883

FC-8-C3.ST25.txt

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ttggaagcaa tgttgtagga ataattctag attataattg cgatttaaca tttttaatat	120
caggaacatc tctgatagca tgtggagtga ttgcattctt tataccgaac atttatcaga	180
agcaagtgga tagaagaacg agcattgctt catatggacc ataaccatat ttccgctcgtg	240
tgttggtgaaa tgcaattata ctttgagaaa gtattatcaa ttacaaagaa aattcagaag	300
ttgctactga atcattttct aaaacatcga catgaaaatt aataactctt tattgttatt	360
agattcgatg taagatatat gt	382

<210> 884  
 <211> 363  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

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<220>  
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atgtggagtg attgcattct ttataccga acatttatca gaagcaagtg gatagaagaa	180
cgagcattgc ttcatatgga ccataaccat atttccgctg tggttgtgaa atgcaattat	240
actttgagaa agtattatca attacaaaga aaattcagaa gttgctactg aatcattttc	300
taaaacatcg acatgaaaat taataactct ttattgntat tagattcgat gtaaganata	360

tgt

363

<210> 885  
 <211> 349  
 <212> DNA  
 <213> Ctenocephalides felis

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 attcacgcaa ctaaatttta cttttttaca tttttgctcg ggtttcggta caggtgtagg 180  
 ttcaggagta ggtactactc ctgggtgcggg ctcattccaat gatgcaaata cttctttatt 240  
 tactgttaaa ggcgttcogt cgacattaaa ctcaccatca taagcggtaa cgacagataa 300  
 cgccacaaaa ctaataaaaa ccaatgtgat ataaaacatt ctaataaat 349

<210> 886  
 <211> 371  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (18)..(18)  
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<220>  
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<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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 <222> (210)..(210)  
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<220>  
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 <222> (249)..(249)  
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 gagccaaggt gnggggaaaa atctagaata ttattggcga attaacaatt ttaatataca 120  
 ggaaccatct ctgatagcat ggtgggagng gatggcttct tttttnccga catttatcaa 180  
 aaagcnagng ggtagaaaaa cgagcattgn ttcatatgga ccataaccat atttcccgtc 240  
 gtgtggtgng aaatgcaatt atactttgag aaaggattat caattaccaa gaaaattcag 300  
 aaggtgctac tggatcattt ctaaaacatc gaatgaaaaa taataactct ttattggtat 360  
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 catttatatt tggataaaat ctgatgggt gacggacatt tgaaaccttg tactttgcag 180  
 actgtctttc tttagtgtg cactgtagat atccactttg atcagcgcac acttgatctg 240

ggctacagga ttccttaacc ggatctgctc tatttccgga caatactgca tttcgggtga 300  
actgcacgaa ttcacgcaac taaattttac ttttttacat ttttgctcng gtttcggaca 360

<210> 888  
<211> 241  
<212> DNA  
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aaaggtgtat caaagtctac agatacggcc cgtcaagaaa ttatcacaag aagactgtta 180  
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<210> 889  
<211> 328  
<212> DNA  
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<223> n = unknown

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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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tatttccoga naatactgga tttcgggtga actgcacgaa ttcacgcaac taaattttac 120  
ttttttacat ttttgctcgg gtttcgggtac aggtgtaggt tcaggagtag gtactactcc 180  
tggtgcgggc tcaccaatg atgcaaatac ttctttatatt actgttaaag gcgttcgcgc 240  
gacattaaac tcaccatcat aagcggnaac gacagataac gccacaaaac taataaaaaac 300

caatgtgata taaaacattc taataaat

328

<210> 890  
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<220>  
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 <223> n = unknown

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 <222> (488)..(488)  
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 attttgtttg tgctccttac ataaaataca attttataca ttttaatttt tatacatatt 180  
 ttttatattt aattgcacag atcatttgng natttattat attaattgac tactttatga 240  
 taatttgaat cctaattagt ctattcaaga ttgttttcct ggtttaagcc ttacttagca 300  
 atctcacttt tgcattcttc gccgggtggc gtgggtatgc atcgcaactc cgttttatca 360  
 aagtgaagc catttggaca atcataatgt tttatttgcc atttgttggt aaccaagaaa 420  
 cattgataat attttttaca atctcttcga tcggnaaaaa cgtttcactt tttcatgcag 480  
 ttttccnnaa aaaaat 496

<210> 891  
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 <212> DNA  
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<223> n = unknown

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 aacgagcatt gcttcatatg gaccataacc atatttccgt cgtgtgttgt gaaatgcaat 180  
 tatactttga gaaagtatta tcaattacaa agaaaattca gaagttgcta ctgaatcatt 240  
 ttctaaaaca tcgcatgaaa attaataact ctttattgnt attagattcg atgtaagata 300  
 tatgt 305

<210> 892  
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 <223> n = unknown

<220>  
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 tacattttta tttttatata tattttttat atttaattgc acagatcatt tgtgtattta 180  
 ttatattaat tgactacttt atgataattt gaatcctaatt tagtctattc aagattgntt 240  
 tcctgggtta agcettactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt 300  
 atgcatcgca actccgtttt atcaaagtgc aagccatttg gacaatcata atgntttatt 360  
 tgccatttgt tgtaaccaa gaaacattga taatattttt tacaatctct tcgatcggaa 420  
 aaaacgtttt cactttttgca tgcaggtctg cacga 455

<210> 893  
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 aagaagatgc aaaggtagac aaaggagcca tacatgatgg tgtattggng ggaggggtcca 180  
 caagaatacc taaaattcga tctctgctac aaagaattct ttgcaggaaa gaccttaaatt 240  
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<210> 894  
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<220>  
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 <222> (443)..(443)  
 <223> n = unknown

<220>  
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 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccggcgga agaattgcaa agtgagattg 240  
 ctaagtaagg cttaaacag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgn 420

cattaactat agtaatttct gantatttaa aatatataaa tatagaagcc ttntgaatca 480  
 aaaaaaaaaa aaaaaaaaaa 500

<210> 895  
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<400> 895  
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 catagttagg ngggcattcg aaaacctgac ctttaccatc tttgcagaat aaagtatctt 120  
 gtgcagcttt cggatctggc tgatatacta caaccgcgc atgtagtttc tgccgcttac 180  
 agtttttccc aggttttgat gagcacatat catctaccaa aatggagcat cggaatttga 240  
 gtctctgcaa ttgattggtg naaatggggg ttcttgtcag cgcacaactt caagtagaac 300  
 aatcgtgaca aaatgttcca actgcttatt agt 333

<210> 896  
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 <223> n = unknown

<220>  
 <221> misc\_feature  
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<400> 896  
 ccggtgcaat ttgtcatttg cccaacata aaatggtggg gcccgggcat aaggtattaa 60

FC-8-C3.ST25.txt

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aaaaatggga attgtgcatt ttatgacggg gcaatcaact tctgacgaat tctttttaca    120
catattttta gaaagatcat atacataagt taggggggca ttcgaaaacc tgcctttacc    180
atcttttgag aaaaaagtat cttgtgcagg ctttcggatc tggctgatat cctacaaccc    240
gccatgtagg ttctggcgnc ttacagtttt cccaggtttg atgagcacat atnatctacc    300
caaatggagc atcggaattg agtctctgca atgattggtg    340

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<210> 897
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<220>
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tgcagcatac tttggattct atgacaccgc tcgtggaatg gtgccagacc caagaacacc    180

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ccattagtta taactgggcc attgcacaac ccgcacaact gtgctggatt gtgtatattc 240
attcacactt gnccgtagcg tatgatgatc aatctggacc tgccaaagat gaaatgttga 300
ccttggccgg gaacacncta agccaatttt gagaa 335

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<220>
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<223> n = unknown

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<220>
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<222> (242)..(242)
<223> n = unknown

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<220>
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attaggattc aaattatcat aaagtagtca attaataataa taaatacacn aatgatctgt 180
gcaattaaat ataaaaaata tgtataaaaa ttaaaatgta taaattgtat tttatgtaan 240
gngcaccaac caaatgncat tactatag 268

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